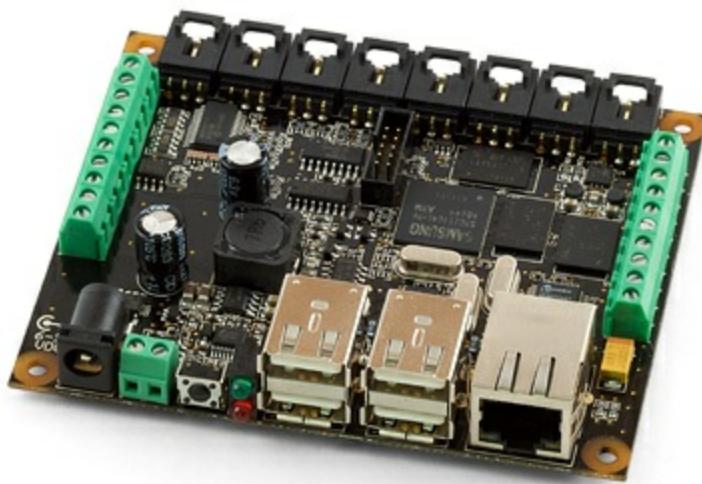




Labview Manual

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Labview Manual

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Printed: July 2014 in Canada

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1 Welcome to Phidgets



July 2014, Version 2.1.8

This help system includes information about LabVIEW programming for each Phidget device. It contains programming concepts, step-by-step instructions, and reference information about VIs, functions and palettes.

To navigate this help system, use the **Contents** and **Search** tabs to the left of this window.

Phidgets are an easy to use set of building blocks for low cost sensing and control from your PC. Using the Universal Serial Bus (USB) as the basis for all Phidgets, the complexity is managed behind this easy to use and robust Application Program Interface (API) library.

This help system may link to Portable Document Format (PDF) versions of documents. You must have Adobe Reader installed to view or search the PDF versions of these manuals.



Note: **(Mac OS X)** Phidgets recommends that you use Safari 1.3.2 or later or Firefox 1.0.2 or later to view the *Help*. **(Linux)** Phidgets recommends that you use Mozilla 1.2 or later or Firefox 1.0.2 or later to view the *Help*.

2 Introduciton

Phidgets are an easy to use set of building blocks for low cost sensing and control from your PC. Using the Universal Serial Bus (USB) as the basis for all Phidgets, the complexity is managed behind this easy to use and robust Application Program Interface (API) library.

This manual documents the Phidgets software programming model in National Instruments Labview language. The [Programming Concept](#) should be the first section to be read for someone beginning to use Phidgets. After the concepts described are understood, users can read [Phidgets Common](#) and [Specific Modules](#) for function reference and device documentation in general. Note that these sections are light on function documentation - generally only containing specific reference information and basic function information.

For a more detailed introduction, please refer to [Understanding Phidgets](#) and [Platform Support](#).

2.1 Understanding Phidgets

Hardware Model

All Phidgets are connected to the computer using USB. Most computers support up to 127 USB devices (or more), so it is easy to connect as many Phidgets as are required for almost any project. Phidgets can be connected either directly to a computer or through Hubs, but there are some limitations.

The maximum cable length for USB is 15 feet. This is a maximum distance between device and computer, even if there are one or more Hubs in between. There are cable extenders available on the market, but these can be unreliable and are not endorsed by Phidgets Inc. Users should never try to run USB over anything other than a certified USB cable, and should never try to run it longer than the spec.

Phidgets run as USB 1.1 low speed or full speed devices, and are supported by both USB 1.1 and USB 2.0 hosts.

Software Model

The Phidgets Labview library is written under the C library - phidget21, which implements the low-level protocols necessary to communicate with the Phidgets, and exports a unified interface to the software programmer. This also makes the Phidgets Labview library cross-platform.

The Phidget Labview library contains only glue logic for interfacing with the C library, thus making maintenance much easier. It should be noted the library employs threading and events extensively. (See Programming Concept for more information.)

2.2 Platform Support

Operating System Support

Windows

Microsoft Windows 2000 and later are supported, including 64-bit editions. The Windows libraries are installed using an MSI installer that can be found on the Phidgets web site. This installs the C library, the .NET library, the COM library, the Java library, the Phidget Web Service and the Phidget Control Panel.

The Phidget Control Panel is represented by a “Ph” icon that runs in the system tray (usually on the right end of the Windows task bar). This program can be used to list and control any Phidgets attached to the system, and to control the Web Service.

Mac OS X

Mac OS X 10.3.9 and newer on Intel and PPC are supported. The Mac libraries are distributed in a .dmg and are installed using a standard Mac package installer. This installs the C library, the Kernel driver, the Java library, the Phidget Web Service and the Phidget Preference Pane.

The Phidget Preference Pane is a preference pane which resides in System Preferences. This program can be used to list and control any Phidgets attached to the system, and to control the Web Service.

Linux

Linux version 2.4 is supported, including 64-bit editions, but 2.6.7 or newer is recommended. The Linux libraries are distributed as source. The source for the C library, with optional JNI (Java support) extensions and the source for the Phidget Web Service are available as a .tar.gz. The included Makefile makes it easy to build and install the libraries on most Linux distribution.

Other

Other Operating System support is not currently available.

Labview Version Support

The Phidgets Labview library supports 32-bit Labview version 7.1.1 or higher. It also supports 64-bit Labview version 2009 or higher.



Note: If you use Labview 64-bit, you need to install the Phidgets Labview 64-bit

library.

3 Programming Concept

This manual is designed such that both novice and expert users can quickly reference the various Phidget LabVIEW functions.

The manual is subdivided into 6 sections: [Getting Started](#), [Event Handler](#), [Multiple Devices](#), [Phidgets Common](#), [Specific Modules](#) and [Phidgets Constants](#).

Each section is defined as follow:

Getting Started: tells users how to communicate with phidgets and perform some basic functions.

Use the [Getting Started](#) manual as a tutorial to familiarize yourself with Phidget LabVIEW functions and basic features you use to build data acquisition and instrument control applications.

Event Handler: needs only be used in applications that need to receive events. Use the [Event Handler](#) manual as a tutorial to learn how to construct the event and use the handler.

Multiple Devices: needs only be used in applications that involve multiple phidgets. Use the [Multiple Devices](#) manual as a tutorial to configure and control many phidgets in one VI.

Phidgets Common: contains the common functions for all phidgets.

Specific Modules: contains all the functions for specific phidgets.

Phidgets Constants: explains all Phidgets pre-defined constants.



Note: It is important for user to upgrade the Phidgets21 library to the most recent version. Click [here](#) to check and download the latest version library.

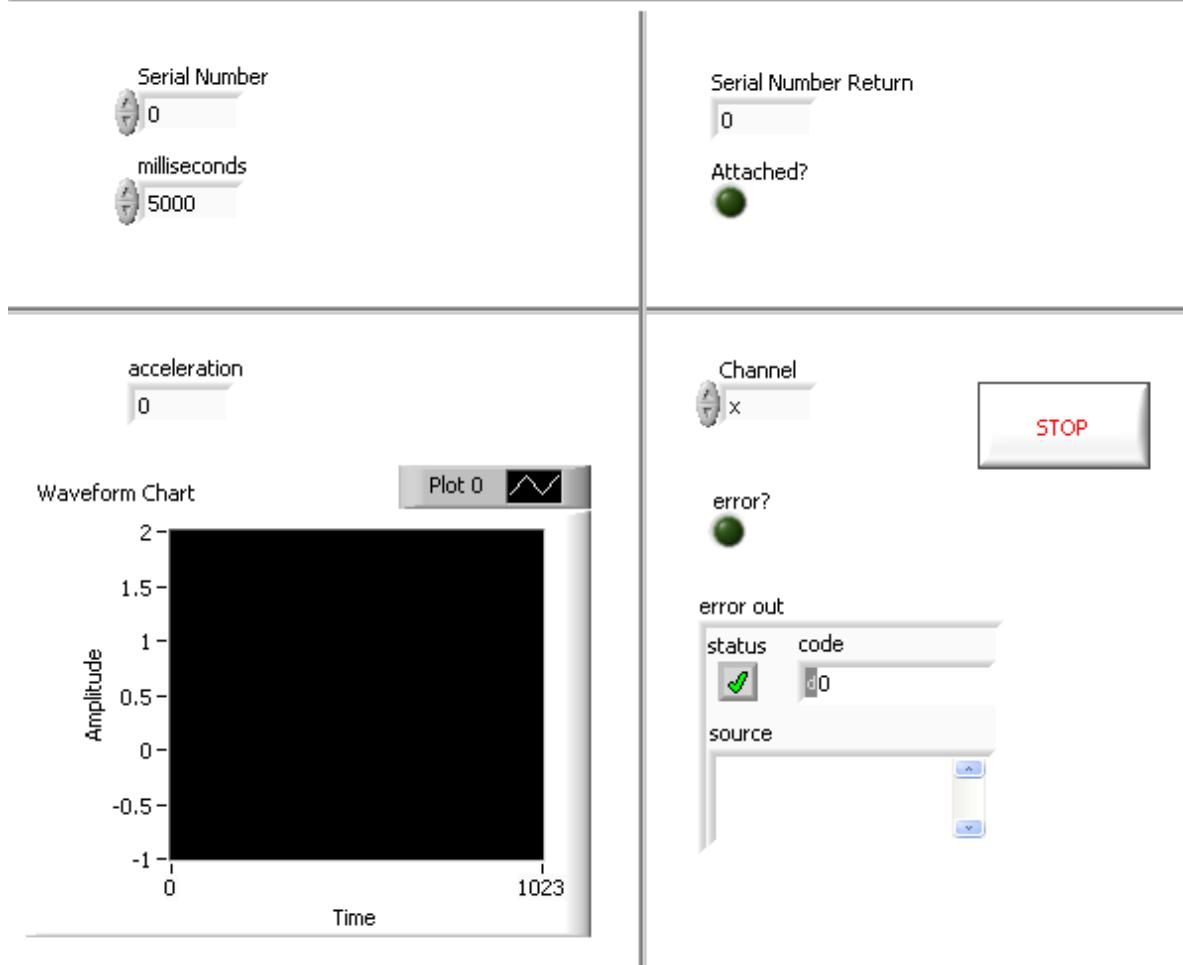
3.1 Getting Started

Phidgets are an easy to use set of building blocks for low cost sensing and control from your PC. Using the Universal Serial Bus (USB) as the basis for all Phidgets, the complexity is managed behind this easy to use and robust Application Program Interface (API) library.

As such, the Phidgets Labview VI features a very simple and easy-to-use set of VIs. At the simplest level, all you have to do to control a Phidget is explained in this section.

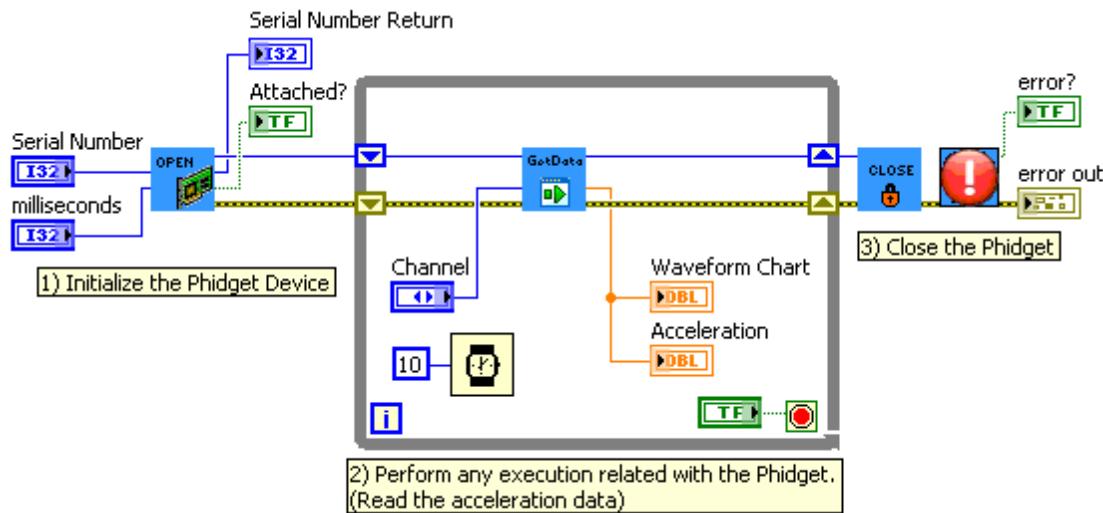
For illustration purposes, Phidget Accelerometer will be used.

Phidgets Accelerometer Example



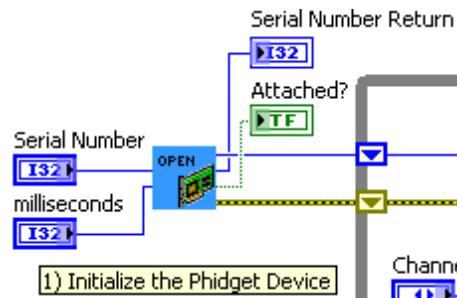
Note: For a more specific illustration on different phidgets, users can refer to different examples accordingly.

Open the diagram of the "Single control example.vi" under the "Accelerometer" folder.



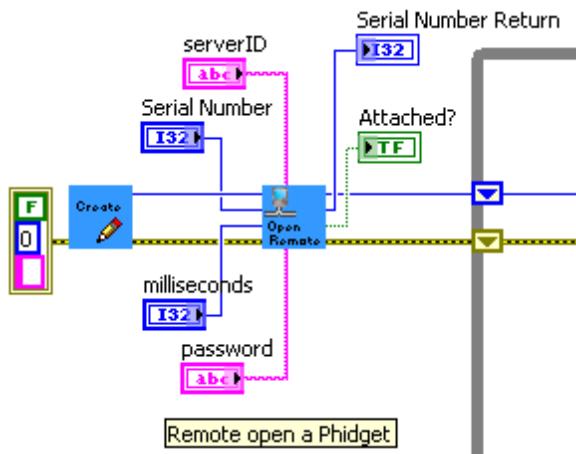
Phidgets can be programmed into 3 steps:

<Step1> Initialize the Phidget. This includes opening a Phidget hardware, creating a Phidget handler or setting up parameters of a Phidget.

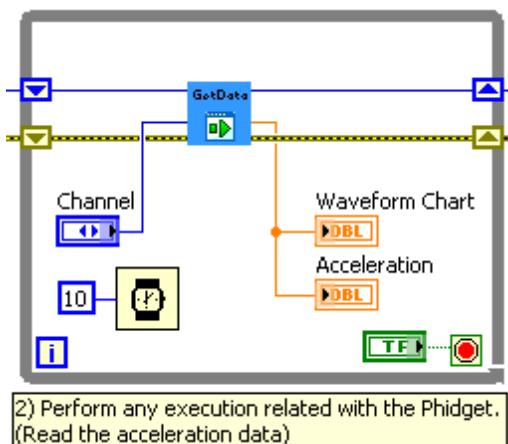


Users can also acquire other information in this step. For more details, please refer to the example called "Remote Example.vi" under "TemperatureSensor" folder.

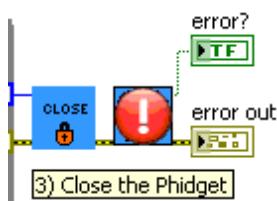
If users want to open Phidgets over the network, a PhidgetOpenRemote and AcceCreate functions will be called instead of AcceOpen.



<**Step 2**> Perform any execution related with the Phidget. This includes data acquisition, device control, event execution etc.



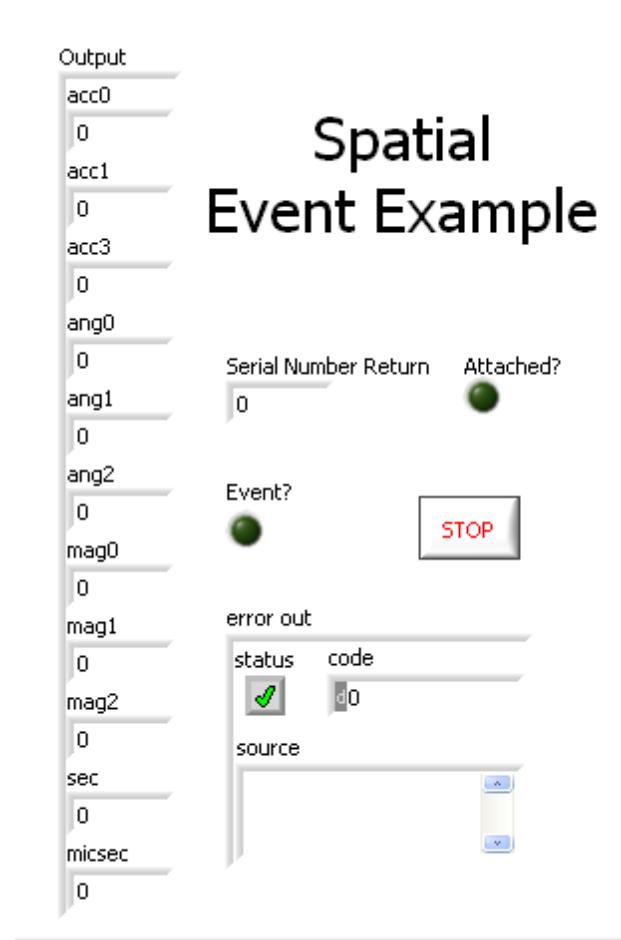
<**Step 3**> Close the Phidget. This may include closing the device, releasing all the resources or freeing a Phidget handle and an error handler.



3.2 Event Handler

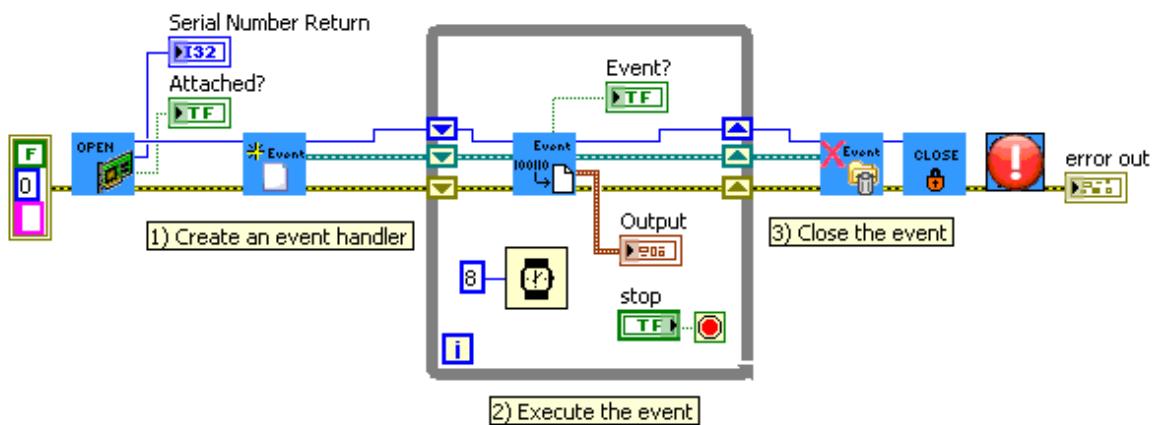
This demonstrates how to call a Phidgets event and how to use them.

For illustration purposes, Phidget Spatial will be used.



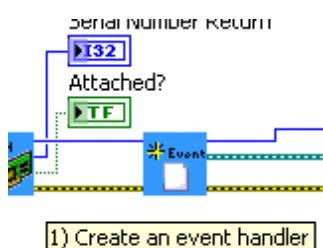
Note: For a more specific illustration on different phidgets, users can refer to different examples accordingly.

Open the diagram of the "Spatial event example.vi" under the "Spatial" folder.

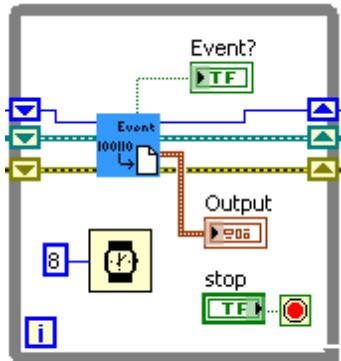


Phidgets Event can be programmed into 3 steps:

<**Step1**> Create an event handler.



<**Step2**> Perform any event execution related with the Phidget.



2) Execute the event

<Step3> Close the related event.



3) Close the event

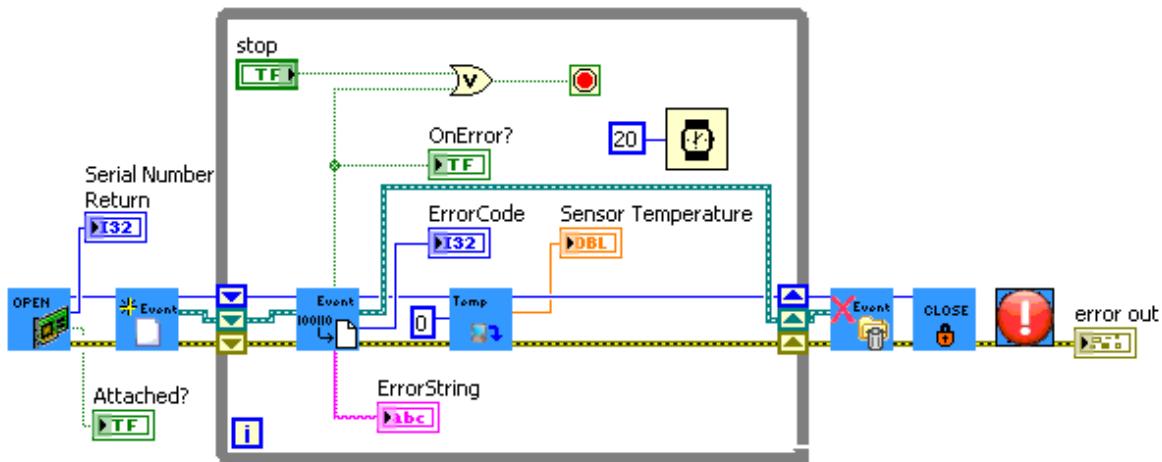


Note: When execute an event, please make sure "create", "execute" and "close" the same event. For example, user wants to run an Event called A. He has to place "CreateEventA.vi", "ExeEventA.vi" and "CloseEventA.vi" on the block diagram. He cannot place "CloseEventB.vi" instead of "CloseEventA.vi". However, for some Phidgets event, they share same VIs. (For more details, please refer to specific Phidgets.)

Phidget Error Event:

Another useful example will be "Temp On Error.vi" under "TemperatureSensor" folder.

In this example, the error event is actually located in "Common Functions" folder. It will detect asynchronous errors from Phidgets.

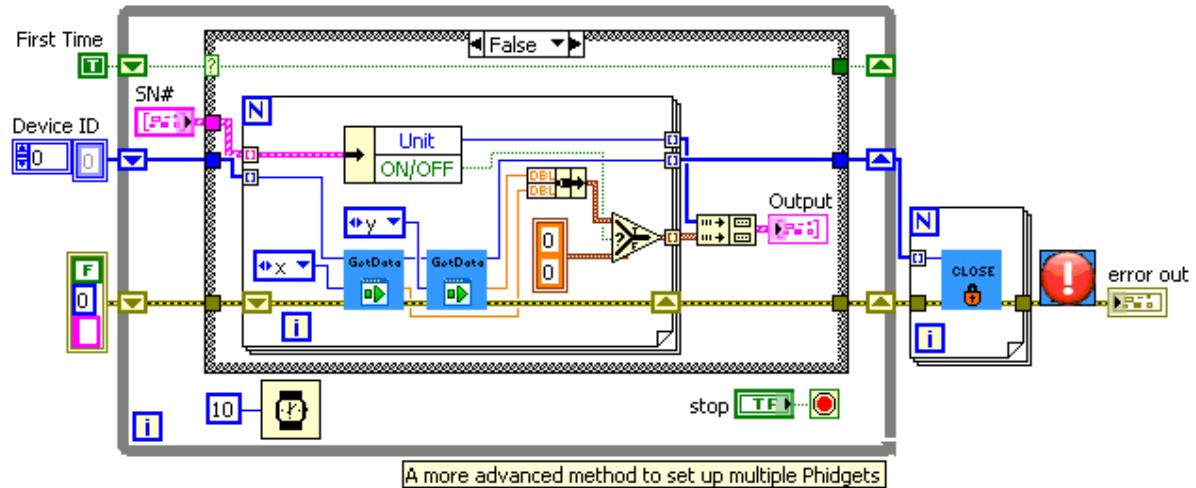
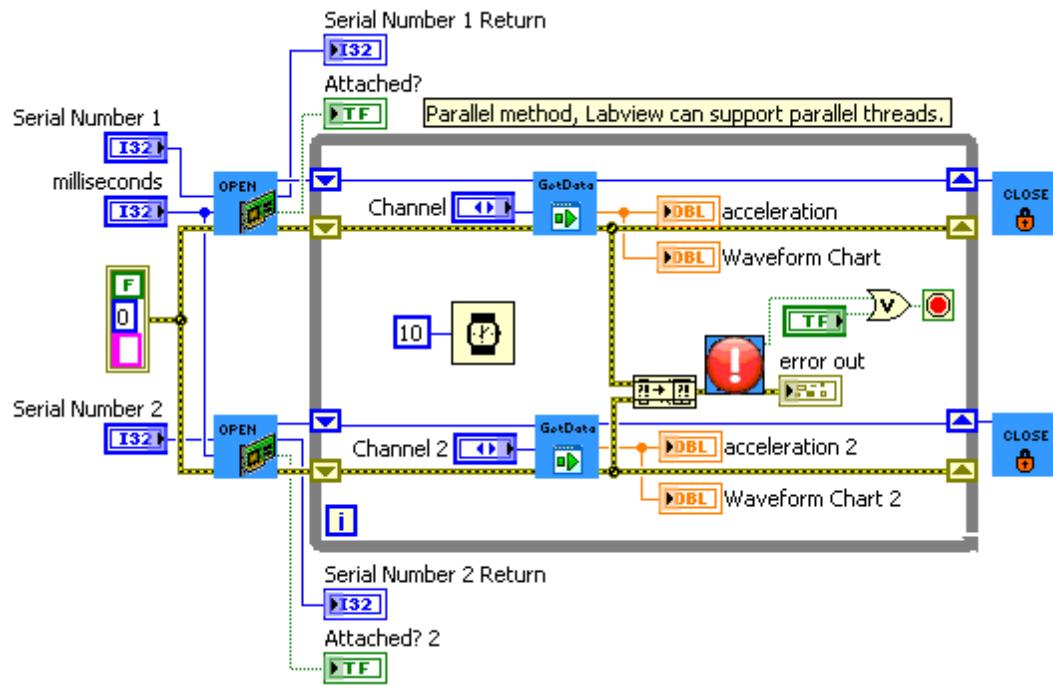


Note: Phidgets can also support multiple events. For an example, please refer to "Event handler example.vi" under the "InterfaceKit" folder.

3.3 Multiple Devices

Phidgets Labview can control multiple phidgets. As long as the handlers are different, different phidgets can run in parallel.

For a more detailed illustration, please refer to the example of "Multiple control example (Parallel).vi" and "Multiple control example (Advanced).vi" under the "Accelerometer" folder.



Note: Another example will be "TemperatureDisplay.vi" under "TextLCD" folder. This example shows how to combined use different phidgets.

4 Phidgets Common

This section describes the VI functions used by all Phidgets. The SubVI folder contains advanced LabVIEW VIs

4.1 ErrorHandler.vi

ErrorHandler.vi

Create a Phidget Error handler



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



error?

TRUE if error occurs



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

4.2 PhidgetClose.vi

PhidgetClose.vi

Close a Phidget device

**Device In**

Device # Identification.

**error in**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or

FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.

4.3 PhidgetDelete.vi

PhidgetDelete.vi

Delete a Phidget device handle



Device In

Device # Identification.



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



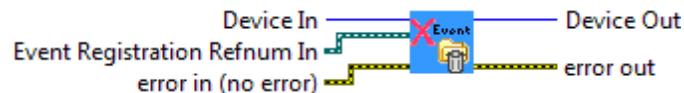
source

source string describes the origin of the error or warning.

4.4 PhidgetEventCloseOnError.vi

PhidgetEventCloseOnError.vi

Close a Phidget error event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or

warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.



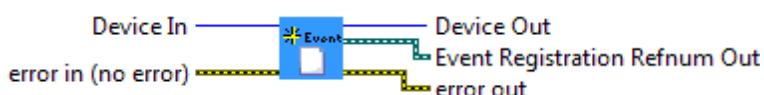
source

source string describes the origin of the error or warning.

4.5 PhidgetEventCreateOnError.vi

PhidgetEventCreateOnError.vi

Create a Phidget error event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other

VI.



status
status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code
code is the error or warning code.



source
source describes the origin of the error or warning.



Device Out



Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.



status
status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source string describes the origin of the error or warning.



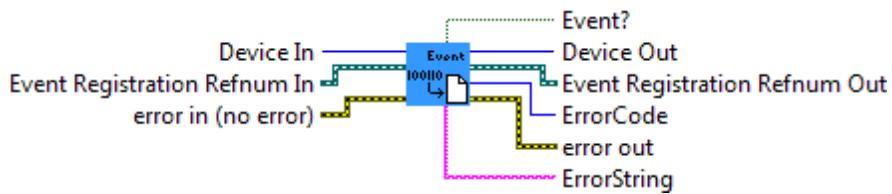
Event Registration Refnum Out

Event # Identification

4.6 PhidgetEventExeOnError.vi

PhidgetEventExeOnError.vi

This is called when an asynchronous error occurs.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



ErrorCode

The error code to get the description of



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Event?

Returns TRUE if the event has executed, or FALSE otherwise.



Event Registration Refnum Out

Same as the Event Registration Refnum In.

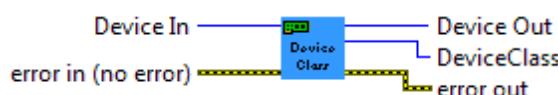


Contain the error description string.

4.7 PhidgetGetDeviceClass.vi

PhidgetGetDeviceClass.vi

Get the class of a Phidget



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.



source describes the origin of the error or warning.

**Device Out**

Same as Device In



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

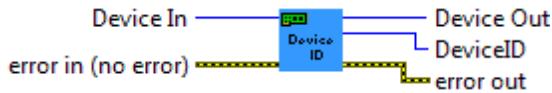
**DeviceClass**

Returns the device class constant

4.8 PhidgetGetDeviceID.vi

PhidgetGetDeviceID.vi

Get the device ID of a Phidget



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



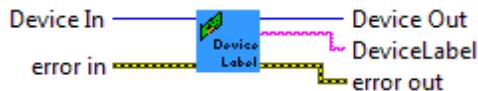
DeviceID

Returns the device ID constant

4.9 PhidgetGetDeviceLabel.vi

PhidgetGetDeviceLabel.vi

Get the label of a Phidget



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device In

Device # Identification.



error out

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**Device Out**

Same as Device In

**DeviceLabel**

Returns the device label

4.10 PhidgetGetDeviceName.vi

PhidgetGetDeviceName.vi

Get the specific name of a Phidget

**error in**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error

or warning.



Device In

Device # Identification.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device Out

Same as Device In



DeviceName

Returns the device name

4.11 PhidgetGetDeviceType.vi

PhidgetGetDeviceType.vi

Get the type (class) of a Phidget



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**Device In**

Device # Identification.

**Device Type**

Returns the device type

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

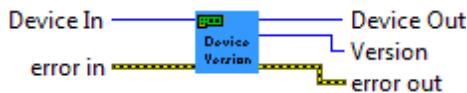
**Device Out**

Same as Device In

4.12 PhidgetGetDeviceVersion.vi

PhidgetGetDeviceVersion.vi

Get the firmware version of a Phidget



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device In

Device # Identification.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device Out

Same as Device In



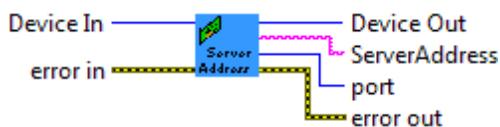
Version

Returns the device version

4.13 PhidgetGetServerAddress.vi

PhidgetGetServerAddress.vi

Get the address and port of a remotely opened Phidget. This will fail if the Phidget was opened locally



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device In

Device # Identification.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**Device Out**

Same as Device In

**ServerAddress**

Returns the address

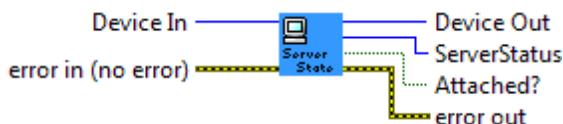
**port**

Returns the port number

4.14 PhidgetGetServerStatus.vi

PhidgetGetServerStatus.vi

Get the connected to server status of a remotely opened Phidget. This will fail if the Phidget was opened locally

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**ServerStatus**

Returns the server status. Possible values are 0 for unattached, 1 for attached and others for undefined

**Attached?**

Returns TRUE if the device successfully attached, or FALSE otherwise.

4.15 PhidgetGetServiceID.vi

PhidgetGetServiceID.vi

Get the server ID of a remotely opened Phidget. This will fail if the Phidget was opened locally



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device In

Device # Identification.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device Out



Same as Device In

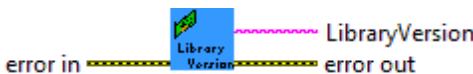
ServiceID

Returns the server ID

4.16 PhidgetLibraryVersion.vi

PhidgetLibraryVersion.vi

Get the library version. This contains a version number and a build date



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

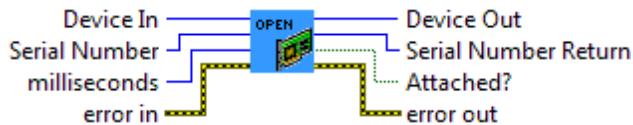
**LibraryVersion**

Returns the library version

4.17 PhidgetOpen.vi

PhidgetOpen.vi

Open a Phidget locally

**Serial Number**

Serial Number. Specify -1 to open any.

**milliseconds**

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)

**error in**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**Device In**

Device # Identification. This function will create a new device identification if it's 0



Serial Number Return

Serial Number of the opened phidget



Attached?

Returns TRUE is the device successfully attached, or FALSE otherwise.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



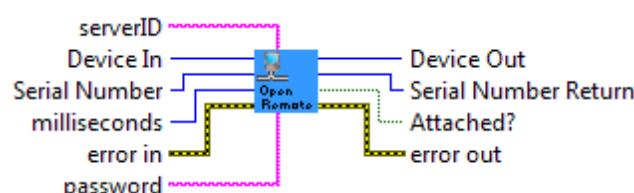
Device Out

Same as Device In

4.18 PhidgetOpenRemote.vi

PhidgetOpenRemote.vi

Open a Phidget remotely by ServerID. Note that this requires Bonjour (mDNS) to be running on both the host and the server



**milliseconds**

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)

**Serial Number**

Serial Number. Specify -1 to open any.

error in

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

source

source string describes the origin of the error or warning.

**Device In**

Device # identification. This function will create a new device identification if it's 0 or invalid

**serverID**

Server ID. Specify NULL to open any

**password**

Password. Can be NULL if the server is running without password

**Serial Number Return**

Serial Number of the opened phidget

**Attached?**

Returns TRUE if the device successfully attached, or FALSE otherwise.

**error out**



error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



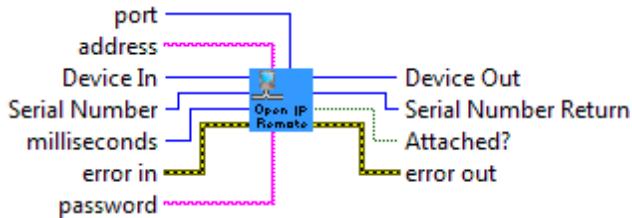
Device Out

Same as Device In

4.19 PhidgetOpenRemoteIP.vi

PhidgetOpenRemoteIP.vi

Open a Phidget remotely by address and port



milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)



Serial Number

Serial Number. Specify -1 to open any.



error in

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**Device In**

Device # identification. This function will create a new device identification if it's 0 or invalid.

**address**

Address. This can be a hostname or IP address

**password**

Password. Can be NULL if the server is running without password

**port**

Port number. Default is 5001

**Serial Number Return**

Serial Number of the opened phidget

Attached?

Returns TRUE if the device successfully attached, or FALSE otherwise.

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

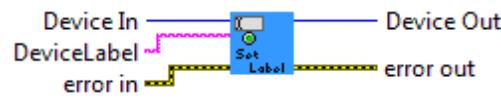
**Device Out**

Same as Device In

4.20 PhidgetSetDeviceLabel.vi

PhidgetSetDeviceLabel.vi

Set the label of a Phidget. Note that this is not supported on very old Phidgets, and not yet supported in Windows

**error in**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**Device In**

Device # Identification.

**DeviceLabel**



The label to be set

error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device Out

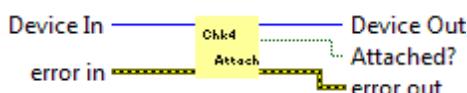
Same as Device In

4.21 Subvi

4.21.1 AttachCHK.vi

AttachCHK.vi

Get the attach state of a Phidget



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device In

Device # Identification.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device Out

Same as Device In



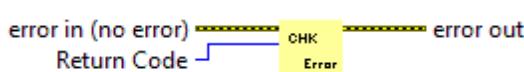
Attached?

Returns TRUE if the device successfully attached, or FALSE otherwise.

4.21.2 _ChkError.vi

_ChkError.vi

Check the error of a Phidget



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Return Code

The error code to get the description of



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



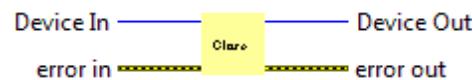
source

source describes the origin of the error or warning.

4.21.3 _Close.vi

_Close.vi

Close a Phidget device



Device In

Device # Identification.



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

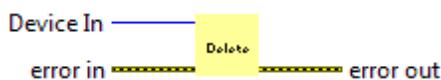
code is the error or warning code.

**source**

source string describes the origin of the error or warning.

4.21.4 _Delete.vi**_Delete.vi**

Delete a Phidget handler

**Device In**

Device # Identification.

**error in**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.



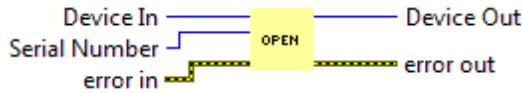
source

source string describes the origin of the error or warning.

4.21.5 _Open.vi

_Open.vi

Open a Phidget device



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device In

Device # Identification.



Serial Number

Serial Number. Specify -1 to open any.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



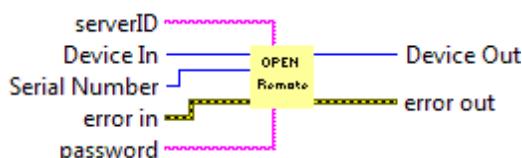
Device Out

Same as Device In

4.21.6 _OpenRemote.vi

_OpenRemote.vi

Open a Phidget remotely by ServerID. Note that this requires Bonjour (mDNS) to be running on both the host and the server



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.

**Device In**

Device # Identification.

**Serial Number**

Serial Number. Specify -1 to open any.



Server ID. Specify NULL to open any



password

Password. Can be NULL if the server is running without password

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

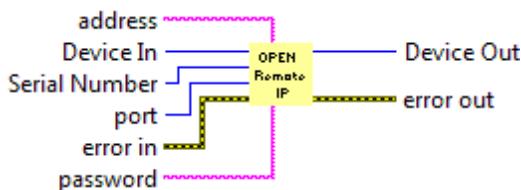
**Device Out**

Same as Device In

4.21.7 **_OpenRemoteIP.vi**

_OpenRemoteIP.vi

Open a Phidget remotely by address and port



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device In

Device # Identification.



Serial Number

Serial Number. Specify -1 to open any.



address

Address. This can be a hostname or IP address



password

Password. Can be NULL if the server is running without password



port

Port number. Default is 5001



error out

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

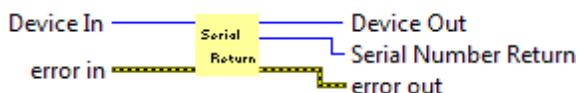
**Device Out**

Same as Device In

4.21.8 SerialReturn.vi

SerialReturn.vi

Return the serial number of a Phidget

**error in**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**Device In**

Device # Identification.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.



source

source string describes the origin of the error or warning.



Device Out

Same as Device In



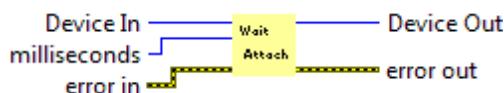
Serial Number Return

Serial Number of the opened phidget

4.21.9 _WaitAttach.vi

_WaitAttach.vi

Wait until a Phidget attached



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or

that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**Device In**

Device # Identification.

**milliseconds**

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

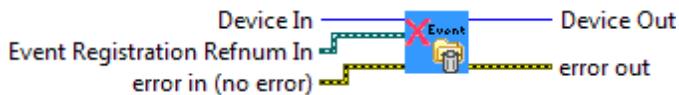
**Device Out**

Same as Device In

4.21.10 EventCloseIntDouble.vi

EventCloseIntDouble.vi

Close the event handler which contains an integer and a double event variables. This should not be directly accessed by users



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



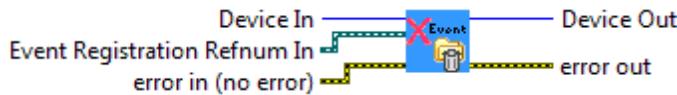
source

source string describes the origin of the error or warning.

4.21.11 EventCloseIntInt.vi

EventCloseIntInt.vi

Close the event handler which contains an integer and an integer event variables. This should not be directly accessed by users



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out



Same as Device In



error out
error out passes error or warning information out of a VI to be used by other VIs.



status
status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

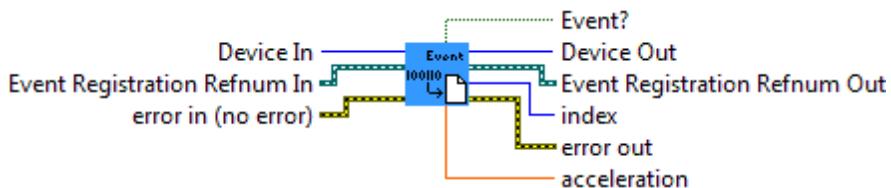
source

source string describes the origin of the error or warning.

4.21.12 EventExeIntDouble.vi

EventExeIntDouble.vi

Call the event handler which contains an integer and a double event variables. This should not be directly accessed by users



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Event Registration Refnum In**

Event # Identification

**acceleration**

The double

**index**

The integer

**Device Out**

Same as Device In

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**Event Registration Refnum Out**

Event # Identification



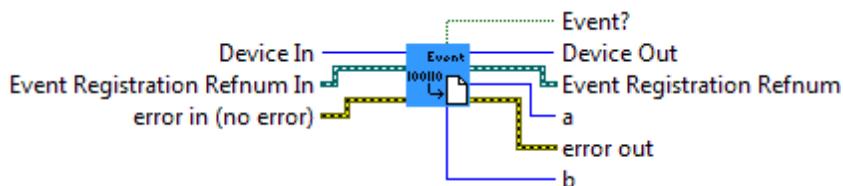
Event?

Returns TRUE if the event has executed, or FALSE otherwise.

4.21.13 EventExeIntInt.vi

EventExeIntInt.vi

Call the event handler which contains an integer and an integer event variables. This should not be directly accessed by users



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification

**a**

The 1st integer

**Device Out**

Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**Event Registration Refnum**

Event # Identification

**b**

The 2nd integer

**Event?**

Returns TRUE if the event has executed, or FALSE otherwise.

5 Specific Modules

This section describes each of the VI function used by different Phidgets. All the VI functions are located in its dll folder correspondingly.

 Note: Refer to the Product manual for your Phidget and the C Programming Manual for more detailed, language unspecific API documentation.

Please select a specified module accordingly.

5.1 Accelerometer

5.1.1 AcceAxisCount.vi

AcceAxisCount.vi

Get the number of acceleration axes supported by this accelerometer.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.



source describes the origin of the error or warning.

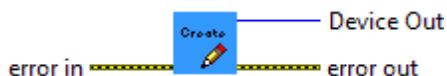
**count**

The number of axes

5.1.2 AcceCreate.vi

AcceCreate.vi

Create a Phidget Accelerometer handle.

**error in**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or

that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code



code is the error or warning code.



source

source string describes the origin of the error or warning.



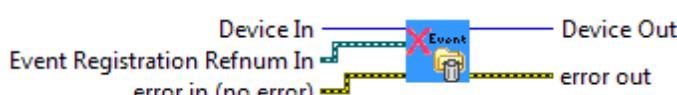
Device Out

The created Device # ID

5.1.3 AcceEventClose.vi

AcceEventClose.vi

Close the acceleration change event handle.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.



source describes the origin of the error or warning.

**Event Registration Refnum In**

Event # Identification

**Device Out**

Same as Device In



error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

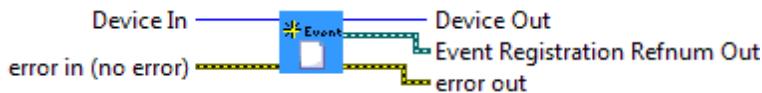


source string describes the origin of the error or warning.

5.1.4 AcceEventCreate.vi

AcceEventCreate.vi

Set up an acceleration change event handle.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkbox) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkbox) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



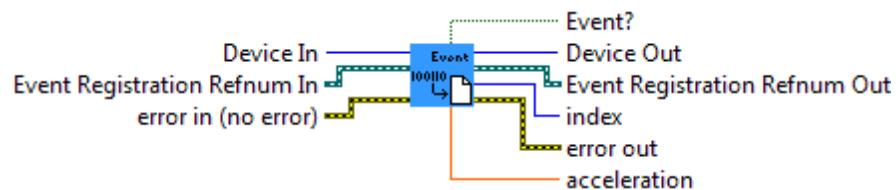
Event Registration Refnum Out

Event # Identification

5.1.5 AcceEventExe.vi

AcceEventExe.vi

This is called when the acceleration changes by more than the change trigger.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or

warning.



Event Registration Refnum In

Event # Identification



acceleration

The acceleration



index

The acceleration index.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Event Registration Refnum Out

Same as the Event Registration Refnum In.



Event?

Returns TRUE if the event has executed, or FALSE otherwise.

5.1.6 AcceGetData.vi

AcceGetData.vi

Get the current acceleration data of an axis.



Device In

Device # Identification.



Channel

Channel of the device to open



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.



source describes the origin of the error or warning.



Device Out

Same as Device In



acceleration

The acceleration



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other

VI.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.

5.1.7 AcceGetMax.vi

AcceGetMax.vi

Get the maximum acceleration supported by an axis.



Device In

Device # Identification.



Channel

The acceleration index. (x, y, z)



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



acce_max

The maximum acceleration.



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.

5.1.8 AcceGetMin.vi

AcceGetMin.vi

Get the minimum acceleration supported by an axis.



Device In

Device # Identification.



Channel

The acceleration index. (x, y, z)



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



The minimum acceleration.



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code****code** is the error or warning code.**source****source** describes the origin of the error or warning.

5.1.9 AcceGetTrigger.vi

AcceGetTrigger.vi

Get the change trigger for an axis.

**Device In****Device # Identification.****Channel****The acceleration index. (x, y, z)****error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code****code** is the error or warning code.**source****source** describes the origin of the error or warning.**Device Out**

Same as Device In



Trigger Out

The change trigger.



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



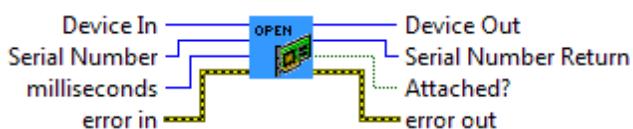
source

source describes the origin of the error or warning.

5.1.10 AcceOpen.vi

AcceOpen.vi

Open a Phidget Accelerometer.



Serial Number

Serial number. Specify -1 to open any.



milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)



error in



error out passes error or warning information out of a VI to be used by other VIs.

status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

source



source string describes the origin of the error or warning.

Device In



Device # Identification.



Serial Number Return



Serial Number of the opened phidget



Attached?

Returns TRUE if the device successfully attached, or FALSE otherwise.



error out



error out passes error or warning information out of a VI to be used by other VIs.

status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code



code is the error or warning code.



source



source string describes the origin of the error or warning.

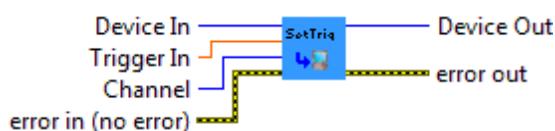
Device Out

Same as Device In

5.1.11 AcceSetTrigger.vi

AcceSetTrigger.vi

Set the change trigger for an axis.



Device In

Device # Identification.



Channel

Channel of the device to open



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Trigger In

The change trigger.



Device Out



Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



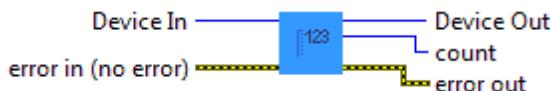
source describes the origin of the error or warning.

5.2 AdvancedServo

5.2.1 AdvServoCount.vi

AdvServoCount.vi

Gets the number of motors supported by this controller.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



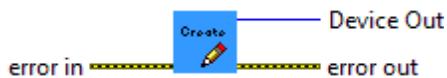
count

The motor count.

5.2.2 AdvServoCreate.vi

AdvServoCreate.vi

Create a Phidget Advanced Servo handle.



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



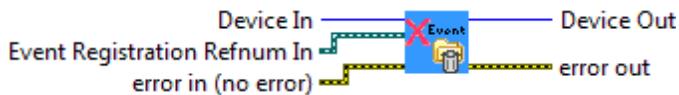
Device Out

Device # identification.

5.2.3 AdvServoEventClose.vi

AdvServoEventClose.vi

Close the Phidget Advanced Servo event handle.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out



Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

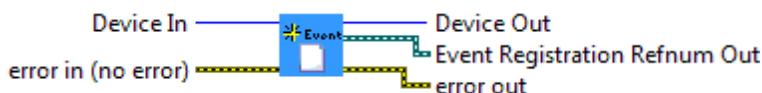
**source**

source string describes the origin of the error or warning.

5.2.4 AdvServoEventCreateCrtChange.vi

AdvServoEventCreateCrtChange.vi

Set up a current change event handle.

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out**

Same as Device In

**error out**

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



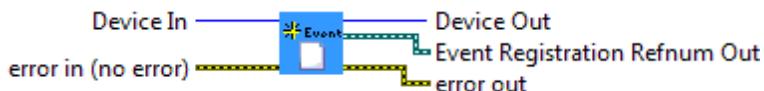
Event Registration Refnum Out

Event # Identification

5.2.5 AdvServoEventCreatePosChange.vi

AdvServoEventCreatePosChange.vi

Set up a position change event handle.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out**

Same as Device In

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

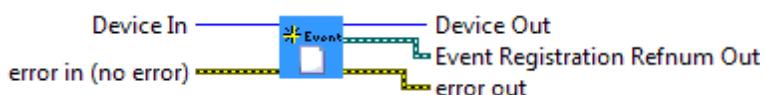
**Event Registration Refnum Out**

Event # Identification

5.2.6 AdvServoEventCreateVelChange.vi

AdvServoEventCreateVelChange.vi

Set up a velocity change event handle

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out**

Same as Device In



error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

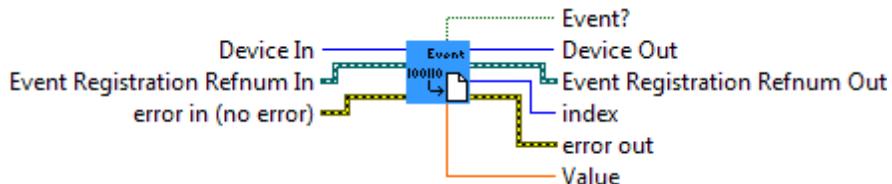
**Event Registration Refnum Out**

Event # Identification

5.2.7 AdvServoEventExe.vi

AdvServoEventExe.vi

This is called when the Phidget Advanced Servo event changes.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Value

The return value of related event. (E.g.: For a position change event, this value is position.)



index



The motor index.



Same as Device In



error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Event Registration Refnum Out

Same as the Event Registration Refnum In.



Event?

Returns TRUE if the event has executed, or FALSE otherwise.

5.2.8 AdvServoGetAcce.vi

AdvServoGetAcce.vi

Get the last set acceleration of a motor



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The motor index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**acce_out**

The acceleration

5.2.9 AdvServoGetAcceMax.vi

AdvServoGetAcceMax.vi

Get the maximum acceleration supported by a motor.

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The motor index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



acce max_out

The maximum acceleration

5.2.10 AdvServoGetAcceMin.vi

AdvServoGetAcceMin.vi

Get the minimum acceleration supported by a motor.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The motor index

**Device Out**

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

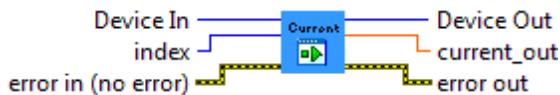
**acce min_out**

The minimum acceleration

5.2.11 AdvServoGetCurrent.vi

AdvServoGetCurrent.vi

Get the current current draw for a motor.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

VI.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.



source

source describes the origin of the error or warning.



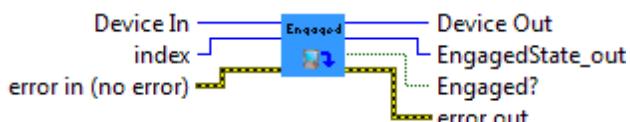
current_out

The current

5.2.12 AdvServoGetEngaged.vi

AdvServoGetEngaged.vi

Get the engaged state of a motor. This is whether the motor is powered or not



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The motor index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**EngagedState_out**

The engaged state. Possible values are 0 for False, 1 for True and others for undefined

**Engaged?**

The engaged state. Possible values are True for Engaged and False for Not Engaged

5.2.13 AdvServoGetPos.vi

AdvServoGetPos.vi

Get the current position of a motor.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

VI.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



pos_out

The position.

5.2.14 AdvServoGetPosMax.vi

AdvServoGetPosMax.vi

Get the maximum position that a motor can go to.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



pos max_out

The maximum position

5.2.15 AdvServoGetPosMin.vi

AdvServoGetPosMin.vi

The minimum position



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or

that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



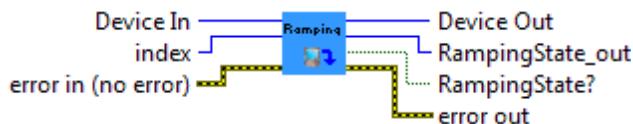
pos min_out

The minimum position

5.2.16 AdvServoGetRampingState.vi

AdvServoGetRampingState.vi

Get the speed ramping state for a motor. This is whether or not velocity and acceleration are used



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



RampingState_out

The speed ramping state. Possible values are 0 for False, 1 for True and others for undefined.



RampingState?

The speed ramping state (Boolean type).

5.2.17 AdvServoGetServoType.vi

AdvServoGetServoType.vi

Get the servo type of a motor



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or

that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



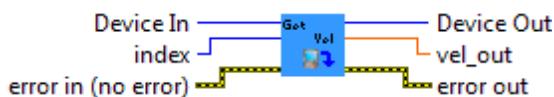
GetServoType

Returns the servo type. This is an enum. Please refer to [Phidgets Constants -> ServoType](#)

5.2.18 AdvServoGetVel.vi

AdvServoGetVel.vi

Get the current velocity of a motor.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



vel_out

The current velocity

5.2.19 AdvServoGetVelLmt.vi

AdvServoGetVelLmt.vi

Get the last set velocity limit of a motor.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**vellim_out**

The velocity limit

5.2.20 AdvServoGetVelMax.vi**AdvServoGetVelMax.vi**

Get the maximum velocity that can be set for a motor

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The motor index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**velmax_out**

The maximum velocity

5.2.21 AdvServoGetVelMin.vi

AdvServoGetVelMin.vi

Get the minimum velocity that can be set for a motor

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should

be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source describes the origin of the error or warning.



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.

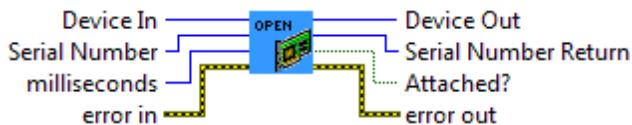


velmin_out

The minimum velocity

5.2.22 AdvServoOpen.vi

AdvServoOpen.vi



Serial Number

Serial Number. Specify -1 to open any.



milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)



error in



error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code



code is the error or warning code.

source

source string describes the origin of the error or warning.



Device In

Device # identification. This function will create a new device identification if it's 0 or invalid.



Serial Number Return



Serial Number of the opened phidget

Attached?

Returns TRUE if the device successfully attached, or FALSE otherwise.

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

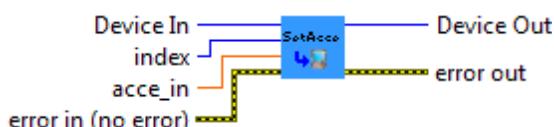
**Device Out**

Same as Device In

5.2.23 AdvServoSetAcce.vi

AdvServoSetAcce.vi

Set the acceleration for a motor

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or

FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**acce_in**

The acceleration

**index**

The motor index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

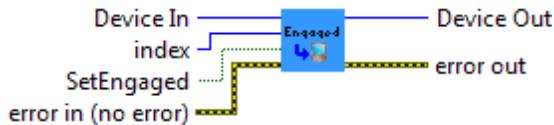
**source**

source describes the origin of the error or warning.

5.2.24 AdvServoSetEngaged.vi

AdvServoSetEngaged.vi

Set the engaged state of a motor. This is whether the motor is powered or not.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



SetEngaged

Set the engage state.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

VI.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.



source

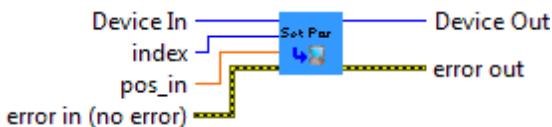
source describes the origin of the error or warning.



5.2.25 AdvServoSetPos.vi

AdvServoSetPos.vi

Set the position of a motor



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



pos_in

The position



index

The motor index



Device Out



Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



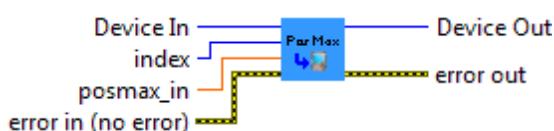
source

source describes the origin of the error or warning.

5.2.26 AdvServoSetPosMax.vi

AdvServoSetPosMax.vi

Set the maximum position that a motor can go to.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



posmax_in

The maximum position



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

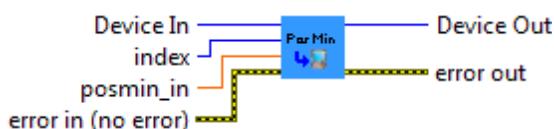
**source**

source describes the origin of the error or warning.

5.2.27 AdvServoSetPosMin.vi

AdvServoSetPosMin.vi

Set the minimum position that a motor can go to.

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**pos min_in**

The minimum position

**index**

The motor index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

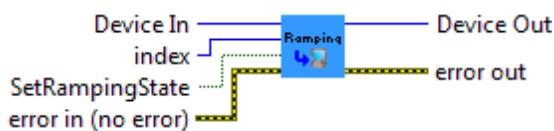
**source**

source describes the origin of the error or warning.

5.2.28 AdvServoSetRampingState.vi

AdvServoSetRampingState.vi

Set the speed ramping state for a motor. This is whether or not velocity and acceleration are used

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should

be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The motor index

**SetRampingState**

The speed ramping state. (0 = False 1 = True)

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

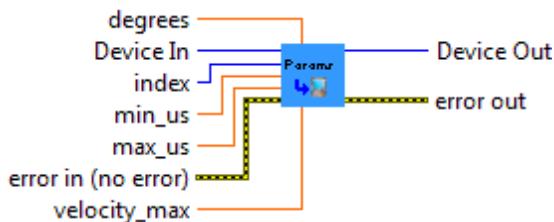
source describes the origin of the error or

warning.

5.2.29 AdvServoSetServoParameters.vi

AdvServoSetServoParameters.vi

Set the servo parameters of a motor.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



min_us

The minimum supported PCM in microseconds

**max_us**

The maximum supported PCM in microseconds

**degrees**

The degrees of rotation defined by the given PCM range

**velocity_max**

The maximum velocity in degrees/second

**Device Out**

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

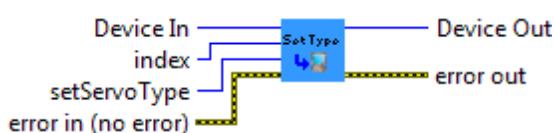
**source**

source describes the origin of the error or warning.

5.2.30 AdvServoSetServoType.vi

AdvServoSetServoType.vi

Set the servo type of a motor



 132

Device In

Device # Identification.

 132

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

 132

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

 132

code

code is the error or warning code.

 132

source

source describes the origin of the error or warning.

 132

index

The motor index

 132

setServoType

The servo type. This is an enum. Please refer to [Phidgets Constants -> ServoType](#)

 132

Device Out

Same as Device In

 132

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

 132

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or

that no error occurred.



code

code is the error or warning code.



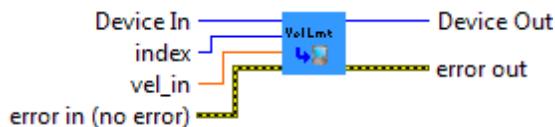
source

source describes the origin of the error or warning.

5.2.31 AdvServoSetVelLmt.vi

AdvServoSetVelLmt.vi

Set the velocity limit for a motor



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



vel_in

The velocity limit



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



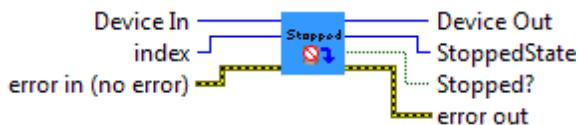
source

source describes the origin of the error or warning.

5.2.32 AdvServoStoppedState.vi

AdvServoStoppedState.vi

Get the stopped state of a motor. This is true when the motor is not moving and there are no outstanding commands



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The motor index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**StoppedState**

The stopped state. Possible values are 0 for False, 1 for True and others for undefined

**Stopped?**

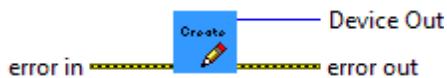
The stopped state (Boolean type). Possible values are True for Stopped and False for Not Stopped

5.3 Analog

5.3.1 AnalogCreate.vi

AnalogCreate.vi

Create a Phidget Analog device

**error in**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



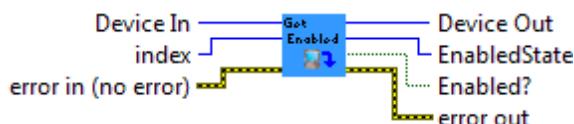
Device Out

The created device # ID

5.3.2 AnalogGetEnabled.vi

AnalogGetEnabled.vi

Get the enabled state of the device



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The analog output index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**EnabledState**

The enabled state. Possible values are 0 for False, 1 for True and others for undefined

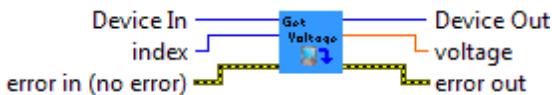
**Enabled?**

The enabled state. Possible values are True for Enabled and False for Not Enabled

5.3.3 AnalogGetVoltage.vi

AnalogGetVoltage.vi

Get the measured voltage



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The analog output index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



voltage

The voltage

5.3.4 AnalogGetVoltageMax.vi

AnalogGetVoltageMax.vi

Gets the maximum voltage that can be output



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The analog output index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



VoltageMax

The maximum voltage

5.3.5 AnalogGetVoltageMin.vi

AnalogGetVoltageMin.vi

Gets the minimum voltage that can be output



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The analog output index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

**source**

source describes the origin of the error or warning.

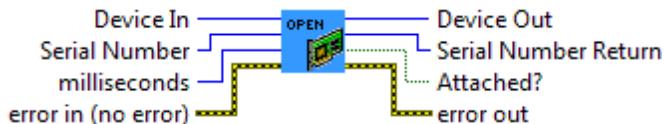
**VoltageMin**

The minimum voltage

5.3.6 AnalogOpen.vi

AnalogOpen.vi

Opens a Phidget Analog device

**Serial Number**

Serial Number. Specify -1 to open any.

**milliseconds**

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)

**error in (no error)**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**Device In**

Device # identification. This function will create a new device identification if it's 0 or invalid.



Serial Number Return

Serial Number of the opened phidget
Attached?



Returns TRUE is the device successfully attached, or FALSE otherwise.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



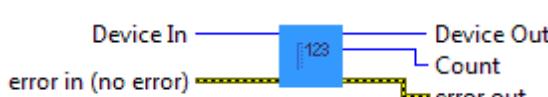
Device Out

Same as Device In

5.3.7 AnalogOutputCount.vi

AnalogOutputCount.vi

Gets the number of analog outputs on the device



Device In

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

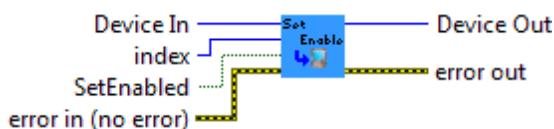
**Count**

The number of analog outputs on the device

5.3.8 AnalogSetEnabled.vi

AnalogSetEnabled.vi

Set the enabled state of the device



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The analog output index



SetEnabled

The enabled state



Device Out



Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



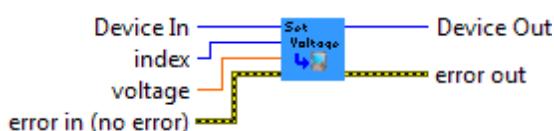
source

source describes the origin of the error or warning.

5.3.9 AnalogSetVoltage.vi

AnalogSetVoltage.vi

Sets the voltage to output



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**voltage**

The voltage to output

**index**

The analog output index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

5.4 Bridge

5.4.1 BridgeCreate.vi

BridgeCreate.vi

Create a phidget bridge device.



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.

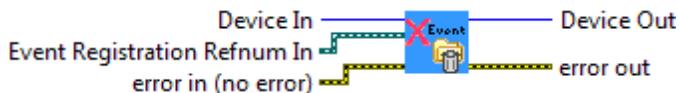
**Device Out**

The created Device # ID

5.4.2 BridgeEventClose.vi

BridgeEventClose.vi

Close a Phidget Bridge event handle.

**Device In**

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.

**Event Registration Refnum In**

Event # Identification

**Device Out**

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



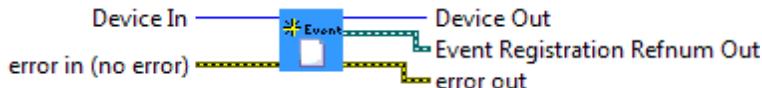
source

source string describes the origin of the error or warning.

5.4.3 BridgeEventCreate.vi

BridgeEventCreate.vi

Create a Phidget Bridge event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out**

Same as Device In

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

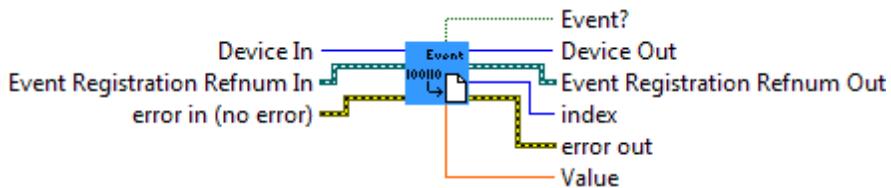
**Event Registration Refnum Out**

Event # Identification

5.4.4 BridgeEventExe.vi

BridgeEventExe.vi

Returns the value of the selected input

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.

**Event Registration Refnum In**

Event # Identification



The value of the selected input (mV/V)



index



The bridge input index

**Device Out**

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**Event?**

Returns TRUE if the event has executed, or FALSE otherwise.

**Event Registration Refnum Out**

Same as Event # Registration Refnum In

5.4.5 BridgeGetDataRate.vi

BridgeGetDataRate.vi

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out**

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



DataRate

5.4.6 BridgeGetDataRateMax.vi

BridgeGetDataRateMax.vi

Gets the maximum supported data rate, in ms.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**DataRateMax**

Maximum data rate

5.4.7 BridgeGetDataRateMin.vi

BridgeGetDataRateMin.vi

Gets the minimum supported data rate, in ms.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

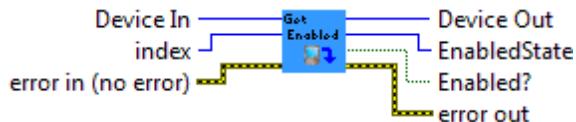
**code****code** is the error or warning code.**source****source** describes the origin of the error or warning.**DataRateMin**

Minimum data rate

5.4.8 BridgeGetEnabled.vi

BridgeGetEnabled.vi

Get the enabled state of a bridge input.

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code****code** is the error or warning code.**source****source** describes the origin of the error or warning.

**index**

The bridge input index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.



source describes the origin of the error or warning.

**EnabledState**

The enabled state. Possible values are 0 for False, 1 for True and others for undefined

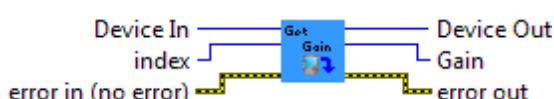
**Enabled?**

The enabled state. Possible values are True for Enabled and False for Not Enabled

5.4.9 BridgeGetGain.vi

BridgeGetGain.vi

Gets the gain setting of the bridge input





Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The bridge input index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

**source**

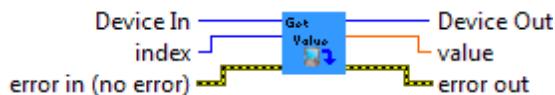
source describes the origin of the error or warning.

**Gain**

The gain setting

5.4.10 BridgeGetValue.vi**BridgeGetValue.vi**

Gets the value of the selected bridge input

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The bridge input index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

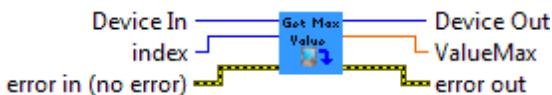
**value**

The value on the bridge input

5.4.11 BridgeGetValueMax.vi

BridgeGetValueMax.vi

The maximum measureable bridge value

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should

be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source describes the origin of the error or warning.



index

The bridge input index



Device Out

Same as Device In



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



ValueMax

The maximum value

5.4.12 BridgeGetValueMin.vi

BridgeGetValueMin.vi

The minimum measurable bridge value.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The bridge input index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other

VI.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



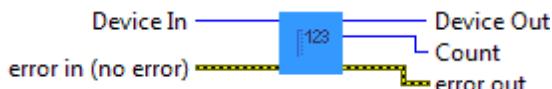
ValueMin

The minimum value

5.4.13 BridgeInputCount.vi

BridgeInputCount.vi

Gets the number of bridge inputs on the device



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.

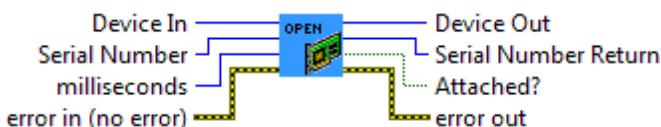


Count

The number of bridge inputs on the device

5.4.14 BridgeOpen.vi

BridgeOpen.vi



Serial Number



Serial Number. Specify -1 to open any.

milliseconds



Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)

error in (no error)



error out passes error or warning information out of a VI to be used by other VIs.

status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code



code is the error or warning code.



source string describes the origin of the error or warning.



Device In



Device # Identification. This function will create a new device identification if it's 0

Serial Number Return



Serial Number of the opened phidget

Attached?



Returns TRUE if the device successfully attached, or FALSE otherwise.

error out



error out passes error or warning information out of a VI to be used by other VIs.

status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

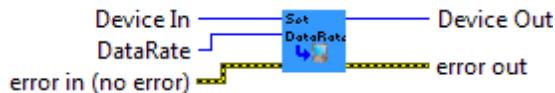
**Device Out**

Same as Device In

5.4.15 BridgeSetDataRate.vi

BridgeSetDataRate.vi

Sets the data rate for the bridge input. (ms)

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**DataRate**

The data rate

**Device Out**

Same as Device In



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.

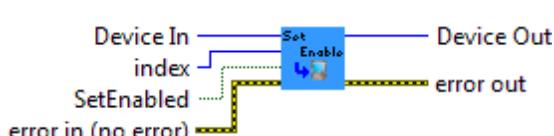


source describes the origin of the error or warning.

5.4.16 BridgeSetEnabled.vi

BridgeSetEnabled.vi

Sets the enabled state of the bridge input

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this

information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The bridge input index

**SetEnabled**

The enabled state

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

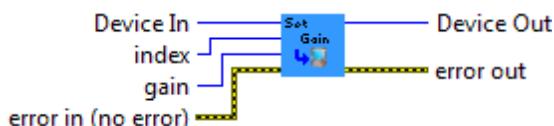
source describes the origin of the error or

warning.

5.4.17 BridgeSetGain.vi

BridgeSetGain.vi

Sets the bridge gain



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



gain

The bridge gain



index

The bridge input index



Device Out



Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

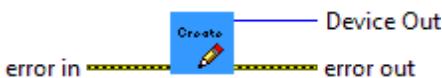
source describes the origin of the error or warning.

5.5 Encoder

5.5.1 EncoderCreate.vi

EncoderCreate.vi

Create a Phidget Encoder handle



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



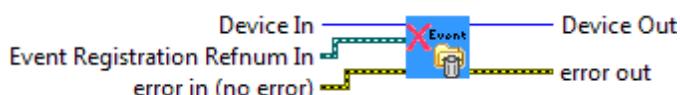
Device Out

Teh created device # ID

5.5.2 EncoderEventCloseInput.vi

EncoderEventCloseInput.vi

Close the input change event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this

information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Event Registration Refnum In**

Event # Identification

**Device Out**

Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

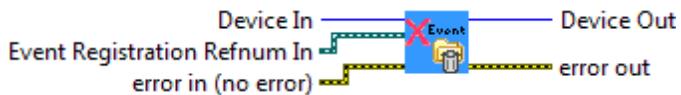
**source**

source string describes the origin of the error or warning.

5.5.3 EncoderEventClosePosition.vi

EncoderEventClosePosition.vi

Close the encoder position change event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

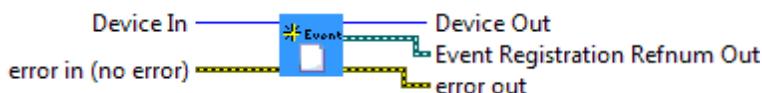
**source**

source string describes the origin of the error or warning.

5.5.4 EncoderEventCreateInput.vi

EncoderEventCreateInput.vi

Set up an input change event handle

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out**

Same as Device In

**error out**

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



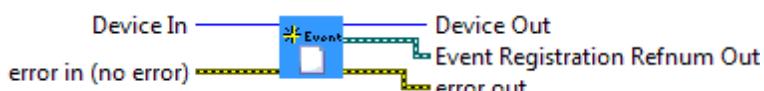
Event Registration Refnum Out

Event # Identification

5.5.5 EncoderEventCreatePosition.vi

EncoderEventCreatePosition.vi

Set up an encoder position change event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out



Same as Device In



error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code



code is the error or warning code.

source

source string describes the origin of the error or warning.



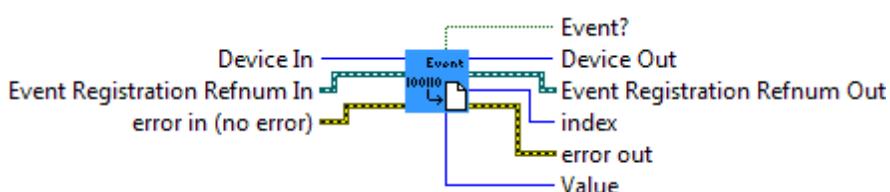
Event Registration Refnum Out

Event # Identification

5.5.6 EncoderEventExeInput.vi

EncoderEventExeInput.vi

This occurs on a Phidget Encoder Input event



**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.



source describes the origin of the error or warning.

**Event Registration Refnum In**

Event # Identification

**Device In**

Device # Identification.



The encoder index



Value The input state value. Possible values are 0 for False, 1 for True and others for undefined

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.



source

source string describes the origin of the error or warning.



Event Registration Refnum Out

Same as the Event Registration Refnum In



Device Out



Same as Device In

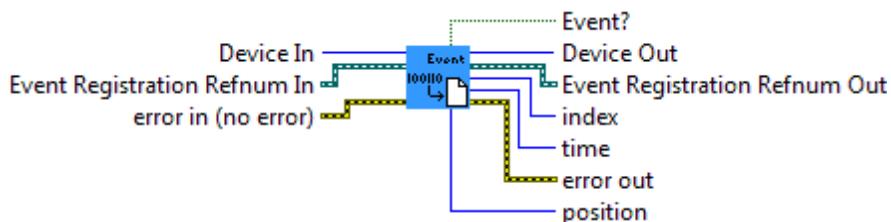
Event?

Returns TRUE if the event has executed, or FALSE otherwise.

5.5.7 EncoderEventExePosition.vi

EncoderEventExePosition.vi

This is called when an encoder position changes.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device In

Device # Identification.



Event Registration Refnum In



Event # Identification

error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device Out

Same as Device In



Event?

Returns TRUE if the event has executed, or FALSE otherwise.



Event Registration Refnum Out

Same as the Event Registration Refnum In



index

The encoder index



time

The time in ms since the last position change event



position

The current position of the encoder. (This is a relative not absolute position.)

5.5.8 EncoderGetCount.vi

EncoderGetCount.vi

Get the number of encoders supported by this board



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



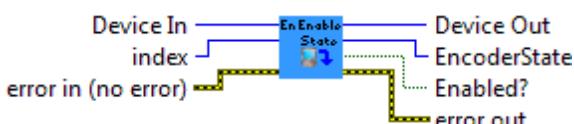
EncoderCount

The encoder input count

5.5.9 EncoderGetEnabledState.vi

EncoderGetEnabledState.vi

Get the enabled state of an encoder. This is whether the encoder is powered or not. Please note that 1057 doesn't support this function



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The encoder index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**EncoderState**

The enabled state. Possible values are 0 for False, 1 for True and others for undefined

**Enabled?**

The enabled state. Possible values are True for Enabled and False for Not Enabled

5.5.10 EncoderGetIndexPosition.vi

EncoderGetIndexPosition.vi

Get the position of the last index pulse, as referenced to Phidget Encoder -> EncoderGetPosition. The function will return an error (EPHIDGET_UNKNOWN) if there hasn't been an index event, or if the encoder doesn't support index



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The encoder index



Device Out

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

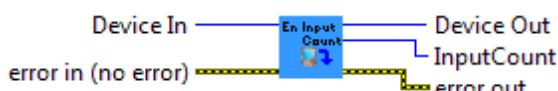
**IndexPosition**

The index position

5.5.11 EncoderGetInputCount.vi

EncoderGetInputCount.vi

Get the number of encoders supported by this board

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.



source describes the origin of the error or warning.

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

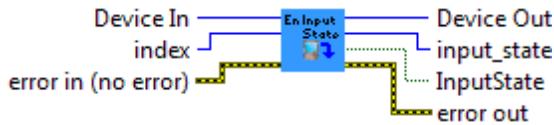
**InputCount**

The input count

5.5.12 EncoderGetInputState.vi

EncoderGetInputState.vi

Get the state of a digital input



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source describes the origin of the error or warning.



index

The encoder index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or

that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



input_state

The input state. Possible values are 0 for False, 1 for True and others for undefined



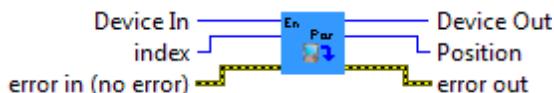
InputState

The input state (Boolean type). Possible values are True for Engaged and False for Not Engaged

5.5.13 EncoderGetPosition.vi

EncoderGetPosition.vi

Get the current position of an encoder



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The encoder index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

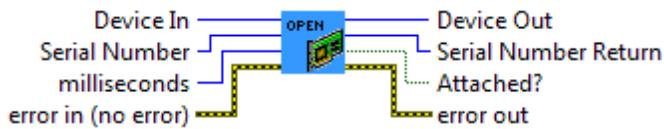
**Position**

The current position

5.5.14 EncoderOpen.vi

EncoderOpen.vi

Open a PhidgetEncoder



Serial Number

Serial Number. Specify -1 to open any.



milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)



error in (no error)

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device In

Device # Identification. This function will create a new device identification if it's 0



Serial Number Return

Serial Number of the opened phidget



Attached?

Returns TRUE is the device successfully attached, or FALSE otherwise.



error out

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

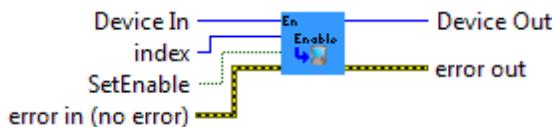
**Device Out**

Same as Device In

5.5.15 EncoderSetEnabled.vi

EncoderSetEnabled.vi

Set the enabled state of an encoder. This is whether the encoder is powered or not. Please note that 1057 doesn't support this function

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The encoder index



SetEnable

The encoder state.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



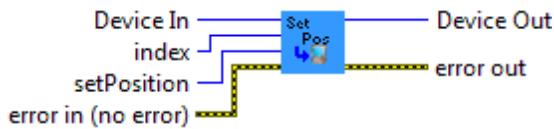
source

source describes the origin of the error or warning.

5.5.16 EncoderSetPosition.vi

EncoderSetPosition.vi

Set the position of an encoder



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The encoder index



setPosition

The new position



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

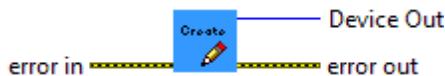
source describes the origin of the error or warning.

5.6 Frequency

5.6.1 FreqCreate.vi

FreqCreate.vi

Create a Phidget Frequency input handle

**error in**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

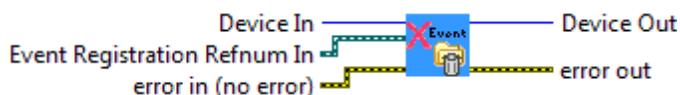
**Device Out**

The created Device # ID

5.6.2 FreqEventClose.vi

FreqEventClose.vi

Close a Phidget Frequency input event handle

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Event Registration Refnum In**

Event # Identification

**Device Out**

Same as Device In



error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

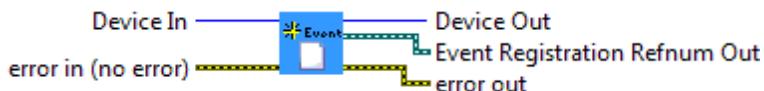
**source**

source string describes the origin of the error or warning.

5.6.3 FreqEventCreate.vi

FreqEventCreate.vi

Create a Phidget Frequency input event handle

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this

information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out**

Same as Device In

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

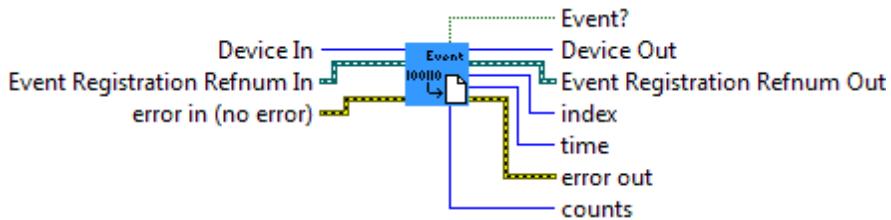
**Event Registration Refnum Out**

Event # Identification

5.6.4 FreqEventExe.vi

FreqEventExe.vi

Executes whenever some counts have been detected



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device In

Device # Identification.



Event Registration Refnum In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device Out

Same as Device In



Event?

Returns TRUE if the event has executed, or FALSE otherwise.



index

The encoder index



time

Time in microseconds over which the pulses have been measured



counts

Then number of counts that occurred

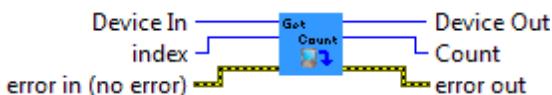


Event Registration Refnum Out

5.6.5 FreqGetCount.vi

FreqGetCount.vi

Gets the total number of pulses detected on the specified channel since the Phidget was opened, or since the last reset



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should

be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source describes the origin of the error or warning.



index

The input index



Device Out

Same as Device In



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Count

The total number of pulses

5.6.6 FreqGetCount71.vi

FreqGetCount71.vi

Gets the total number of pulses detected on the specified channel since the Phidget was opened, or since the last reset



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The input index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should

be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



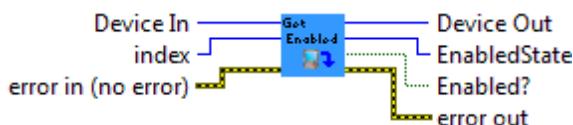
Count

The number of pulses

5.6.7 FreqGetEnabled.vi

FreqGetEnabled.vi

Get the enabled state of the device



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or

that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The input index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



EnabledState

The enabled state. Possible values are 0 for False, 1 for True and others for undefined



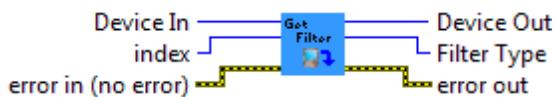
Enabled?

The enabled state. Possible values are True for Enabled and False for Not Enabled

5.6.8 FreqGetFilter.vi

FreqGetFilter.vi

Get the channel filter mode.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The input index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

VI.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.



source

source describes the origin of the error or warning.



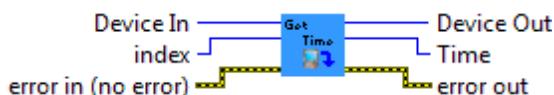
Filter Type

The filter type. This is an enum. Please refer to [Phidgets Constants -> Frequency Filter Mode](#)

5.6.9 FreqGetTime.vi

FreqGetTime.vi

Gets the total elapsed time since Phidget was opened, or since the last reset, in microseconds.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The input index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

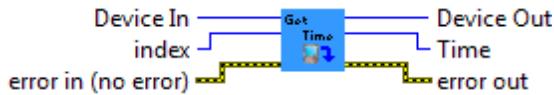
**Time**

The elapsed times

5.6.10 FreqGetTime71.vi

FreqGetTime71.vi

Gets the total elapsed time since Phidget was opened, or since the last reset, in microseconds.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The input index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or

that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



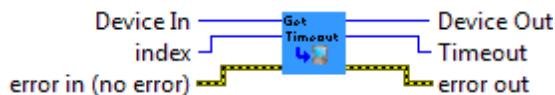
Time

The elapsed time

5.6.11 FreqGetTimeout.vi

FreqGetTimeout.vi

Gets or set the Timeout value, in microseconds



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or

warning.



index

The input index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



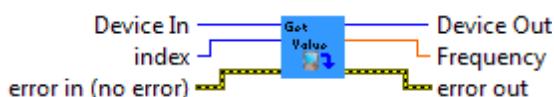
Timeout

The timeout value

5.6.12 FreqGetValue.vi

FreqGetValue.vi

Get the frequency measured by the device.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The input index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

**source**

source describes the origin of the error or warning.

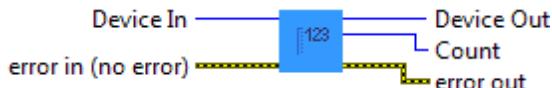
**Frequency**

The measured frequency

5.6.13 FreqInputCount.vi

FreqInputCount.vi

The number of frequency inputs on the device

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

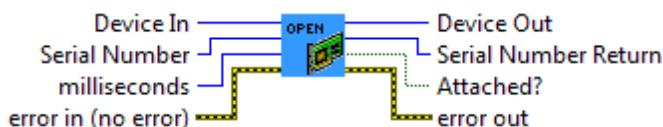
source describes the origin of the error or warning.

**Count**

The number of inputs

5.6.14 FreqOpen.vi**FreqOpen.vi**

Opens a Phidget Frequency Input device

**Serial Number**

Serial Number. Specify -1 to open any.

**milliseconds**

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)

**error in (no error)**

error out passes error or warning information

out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.



source

source string describes the origin of the error or warning.



Device In

Device # Identification. This function will create a new device identification if it's 0



Serial Number Return

Serial Number of the opened phidget



Attached?

Returns TRUE if the device successfully attached, or FALSE otherwise.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



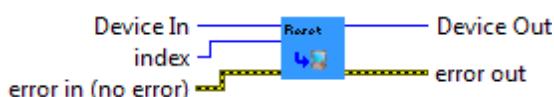
Device Out

Same as Device In

5.6.15 FreqReset.vi

FreqReset.vi

Resets the TotalCount and TotalTime counters to 0 for the specified channel.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The input index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



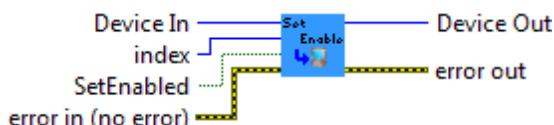
source

source describes the origin of the error or warning.

5.6.16 FreqSetEnabled.vi

FreqSetEnabled.vi

Sets the enabled state of the channel.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The input index

**SetEnabled**

The enabled state of the channel

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

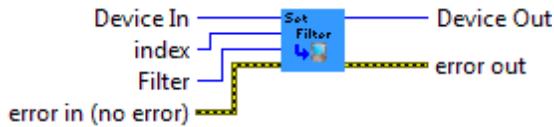
**source**

source describes the origin of the error or warning.

5.6.17 FreqSetFilter.vi

FreqSetFilter.vi

Set the channel filter mode. This controls the type of signal that the frequency counter will respond to
 - either a zero-centered signal, or a logic level signal.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Filter

The filter type. This is an enum. Please refer to [Phidgets Constants -> Frequency Filter Mode](#)



index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



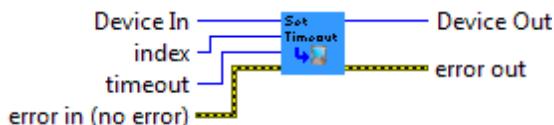
source

source describes the origin of the error or warning.

5.6.18 FreqSetTimeout.vi

FreqSetTimeout.vi

Sets the timeout value in microseconds.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.

**time out**

The timeout value.

**index**

The input index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

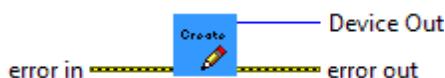
source describes the origin of the error or warning.

5.7 GPS

5.7.1 GPSCreate.vi

GPSCreate.vi

Create a Phidget GPS device

**error in**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

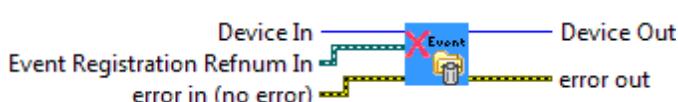
**Device Out**

Device # ID

5.7.2 GPSEventCloseFixStatus.vi

GPSEventCloseFixStatus.vi

Close a Phidget GPS Fix Status event handler

**Device In**

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



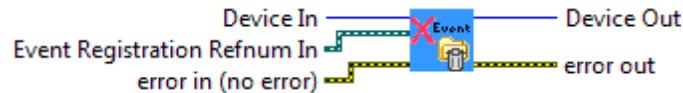
source

source string describes the origin of the error or warning.

5.7.3 GPSEventClosePosition.vi

GPSEventClosePosition.vi

Close a Phidget GPS Position event handler



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



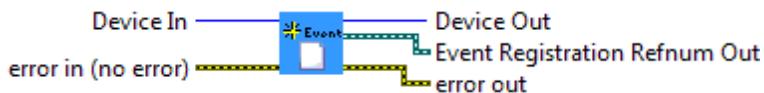
source

source string describes the origin of the error or warning.

5.7.4 GPSEventCreateFixStatus.vi

GPSEventCreateFixStatus.vi

Create a Phidget GPS Fix Status event handler



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

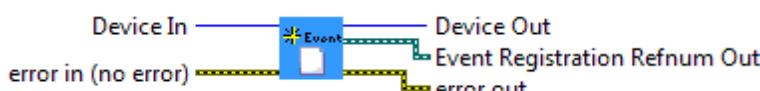
source describes the origin of the error or warning.

**Device Out****Same as Device In****error out****error out** passes error or warning information out of a VI to be used by other VIs.**status** is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.**code** is the error or warning code.**source** string describes the origin of the error or warning.**Event Registration Refnum Out**

Event # Identification

5.7.5 GPSEventCreatePosition.vi**GPSEventCreatePosition.vi**

Create a Phidget GPS Position event handler

**Device In**

Device # Identification.

**error in (no error)****error in** can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out**

Same as Device In

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

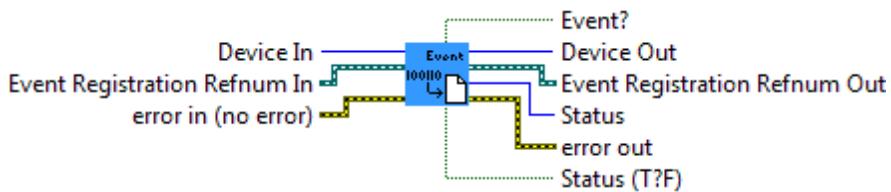
**Event Registration Refnum Out**

Event # Identification

5.7.6 GPSEventExeFixStatus.vi

GPSEventExeFixStatus.vi

Executes when a position fix is obtained or lost.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**Event?**

Returns TRUE if the event has executed, or FALSE otherwise.

**Event Registration Refnum Out**

Same as Event Registration Refnum In

**Status**

The fix status. Possible values are 0 for False, 1 for True and others for undefined

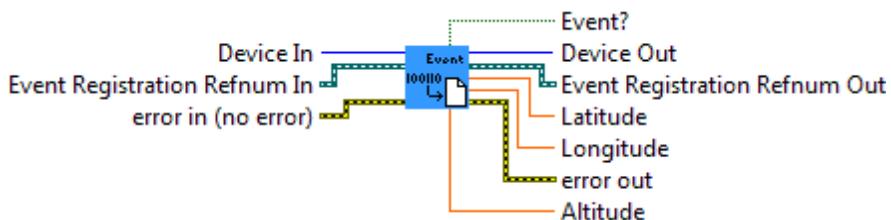
**Status (T?F)**

The fix status. Possible values are True for Fixed and False for Not Fixed

5.7.7 GPSEventExePosition.vi

GPSEventExePosition.vi

Executes when position changes.

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should

be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Event?

Returns TRUE if the event has executed, or FALSE otherwise.



Event Registration Refnum Out



Event # Identification



The latitude



Longitude

The longitude

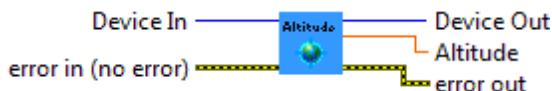
Altitude

The altitude

5.7.8 GPSGetAltitude.vi

GPSGetAltitude.vi

Gets the altitude.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.

**Device Out****Same as Device In****error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Altitude**

The altitude

5.7.9 GPSGetDate.vi

GPSGetDate.vi

Gets the date of the last received position.

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this

information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Date**

The date in UTC.

**tm_mday**

The day of the month



tm_mon

The month



tm_year

The year

5.7.10 GPSGetFixStatus.vi

GPSGetFixStatus.vi

Gets the GPS fix status.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



FixStatus

The fis status. Possible values are 0 for False, 1 for True and others for undefined



FixStatus (T?F)

The fix status. Possible values are True for Fixed and False for Not Fixed

5.7.11 GPSGetHeading.vi

GPSGetHeading.vi

Returns the current true course over ground of the active antenna in degrees (000.0 - 359.9).



Device In

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.

**Device Out**

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.

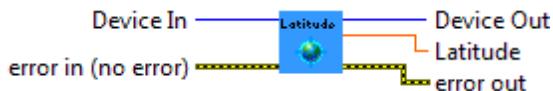
**Heading**

The current course

5.7.12 GPSGetLatitude.vi

GPSGetLatitude.vi

Gets the latitude of the antenna.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should

be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



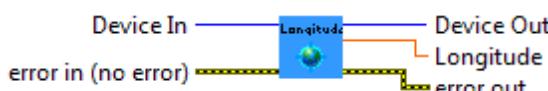
Latitude

The latitude

5.7.13 GPSGetLongitude.vi

GPSGetLongitude.vi

Gets the longitude of the antenna.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out**

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

source

source describes the origin of the error or warning.

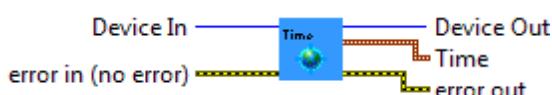
**Longitude**

The longitude

5.7.14 GPSGetTime.vi

GPSGetTime.vi

Gets the current time as transmitted by the GPS receiver.





Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or

warning.



Time

Current time in UTC format.



tm_ms

Current ms



tm_sec

Current second



tm_min

Current minute



tm_hour

Current hour

5.7.15 GPSGetVelocity.vi

GPSGetVelocity.vi

Get the velocity of the antenna.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



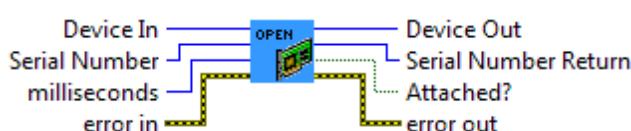
Velocity

The velocity.

5.7.16 GPSOpen.vi

GPSOpen.vi

Open a PhidgetGPS device.





Serial Number

Serial Number. Specify -1 to open any.



milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device In

Device # Identification.



Serial Number Return

Serial Number of the opened phidget

Attached?

Returns TRUE if the device successfully attached, or FALSE otherwise.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**Device Out**

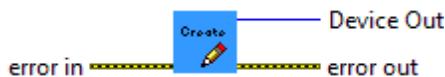
Same as Device In

5.8 InterfaceKit

5.8.1 IFCREATE.VI

IFCREATE.VI

Create a Phidget InterfaceKit handle

**error in**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source string describes the origin of the error or warning.



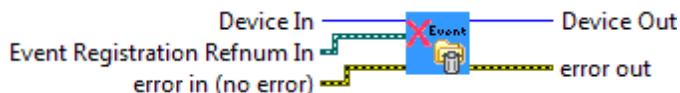
Device Out

Device # identification

5.8.2 IFEVENTCLOSE.VI

IFEVENTCLOSE.VI

Close an IF Kit event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source



source describes the origin of the error or warning.

Event Registration Refnum In

Event # Identification



Device Out



Same as Device In



error out passes error or warning information out of a VI to be used by other VIs.

status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code



code is the error or warning code.

source

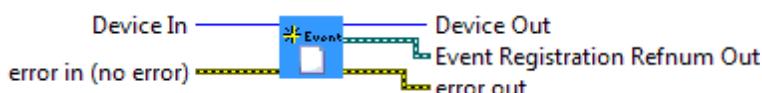


source string describes the origin of the error or warning.

5.8.3 IFEVENTCREATEINPUT.VI

IFEVENTCREATEINPUT.VI

Create an IF Kit Input event handle.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should

be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out**

Same as Device In

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

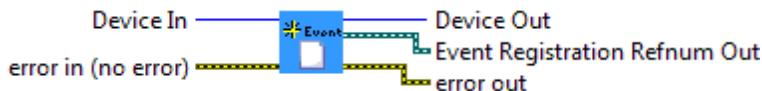
**Event Registration Refnum Out**

Event # Identification

5.8.4 IFEVENTCREATEOUTPUT.VI

IFEVENTCREATEOUTPUT.VI

Create an IF kit Output event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

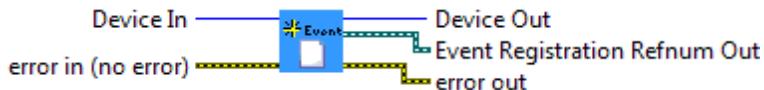
**Event Registration Refnum Out**

Event # Identification

5.8.5 IFEVENTCREATESENSOR.VI

IFEVENTCREATESENSOR.VI

Create an IF kit sensor event.

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out**

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



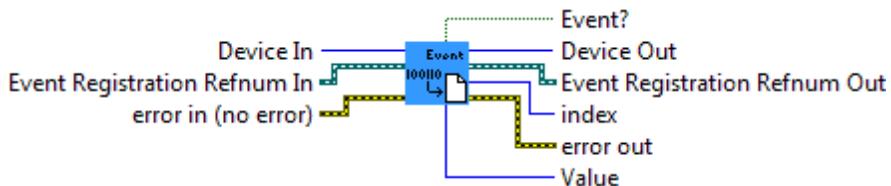
Event Registration Refnum Out

Event # Identification

5.8.6 IFEVENTEXE.VI

IFEVENTEXE.VI

Executes when an IF kit event occurs.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Event Registration Refnum In**

Event # Identification

**Device In**

Device # Identification.

**index**

The input index



The value returned by the event



error out passes error or warning information out of a VI to be used by other VIs.



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**Event Registration Refnum Out**

Event # Identification

**Device Out**

Same as Device In

**Event?**

Returns TRUE if the event has executed, or FALSE otherwise.

5.8.7 IFGetDataRowRate.vi

IFGetDataRowRate.vi

Get the data rate for an analog input



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The input index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



DataRate

The data rate

5.8.8 IFGetDataRowMax.vi

IFGetDataRateMax.vi

Get the maximum supported data rate for an analog input



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The input index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

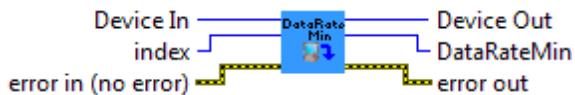
**DataRateMax**

The maximum data rate

5.8.9 IFGetDataRateMin.vi

IFGetDataRateMin.vi

Get the minimum supported data rate for an analog input.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.



source

source describes the origin of the error or warning.



index

The input index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other

VI.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.



source

source describes the origin of the error or warning.



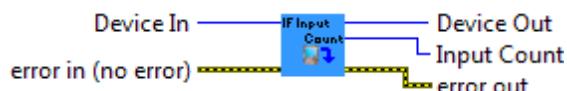
DataRateMin

The minimum data rate.

5.8.10 IFGetInputCount.vi

IFGetInputCount.vi

Get the number of digital inputs supported by this board



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



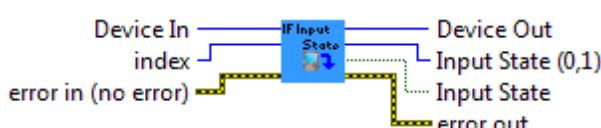
Input Count

the number of digital inputs

5.8.11 IFGetInputState.vi

IFGetInputState.vi

The state of the indexed digital input.





Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The input index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Input State (0,1)**

The input state. Possible values are 0 for False, 1 for True and others for undefined

**Input State**

The input state (Boolean type)

5.8.12 IFGetOutputCount.vi

IFGetOutputCount.vi

Get the number of digital outputs supported by this board

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



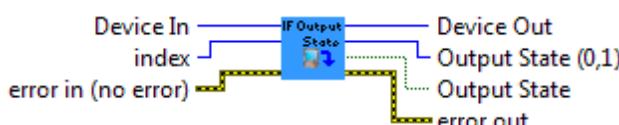
Output count

The ditial output count

5.8.13 IFGetOutputState.vi

IFGetOutputState.vi

Get the state of a digital output



Device In

Device # Identification.



error in (no error)

error in can accept error information wired

from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The input index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.



Output State (0,1)

The output state. Possible values are 0 for False, 1 for True and others for undefined



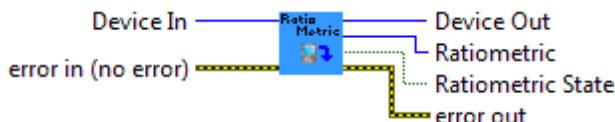
Output State

The output state (Boolean type).

5.8.14 IFGetRatio.vi

IFGetRatio.vi

Get the ratiometric state for this board



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Ratiometric

The ratio metric state. Possible values are 0 for False, 1 for True and others for undefined



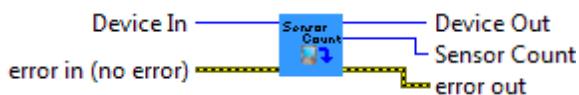
Ratiometric State

The ratio metric state (Boolean type).

5.8.15 IFGetSensorCount.vi

IFGetSensorCount.vi

Get the number of sensor (analog) inputs supported by this board



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



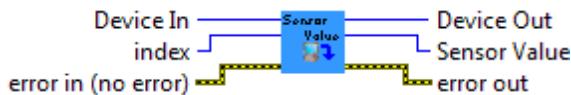
Sensor Count

The sensor input count

5.8.16 IFGetSensorValue.vi

IFGetSensorValue.vi

Get a sensor value (0-1000).



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The input index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

VI.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



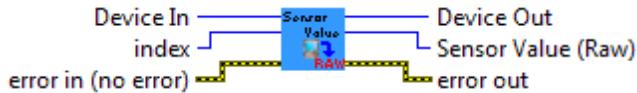
Sensor Value

The sensor value

5.8.17 IFGetSensorValueRaw.vi

IFGetSensorValueRaw.vi

Get a sensor raw value (12-bit).



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The input index



Device Out



Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



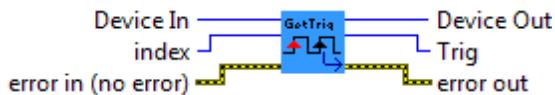
Sensor Value (Raw)

The sensor value

5.8.18 IFGetTrig.vi

IFGetTrig.vi

Get a sensor change trigger



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The input index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or

that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



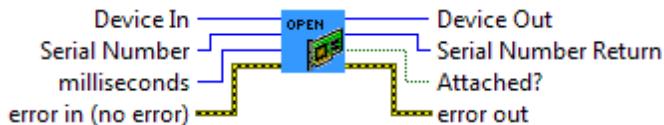
Trig

The change trigger

5.8.19 IFOpen.vi

IFOpen.vi

Open a PhidgetInterfaceKit



Serial Number

Serial Number. Specify -1 to open any.



milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)



error in (no error)

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device In

Device # Identification. This function will create a new device identification if it's 0



Serial Number Return

Serial Number of the opened phidget
Attached?



Returns TRUE is the device successfully attached, or FALSE otherwise.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.



source string describes the origin of the error or warning.



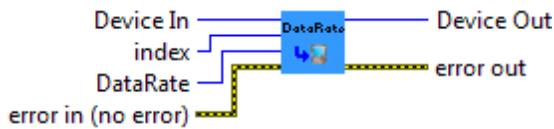
Device Out

Same as Device In

5.8.20 IFSetsDataRate.vi

IFSetsDataRate.vi

Set the data rate for an analog input



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source describes the origin of the error or warning.



index

The input index



DataRate

The data rate.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

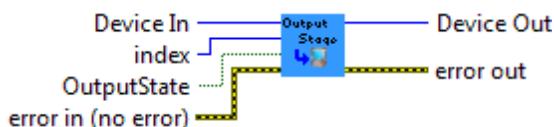
**source**

source describes the origin of the error or warning.

5.8.21 IFSetOutputState.vi

IFSetOutputState.vi

The Set the state of a digital output

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or

warning.



index

The input index



OutputState

The output state. (0 = False 1 = True)



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



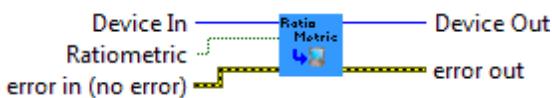
source

source describes the origin of the error or warning.

5.8.22 IFSetsRatio.vi

IFSetRatio.vi

Set the ratio metric state for this board.



Device In

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Ratiometric**

The ratiometric state. (0 = False 1 = True)

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

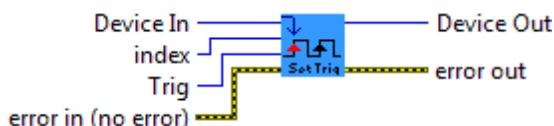
source describes the origin of the error or

warning.

5.8.23 IFSetsTrig.vi

IFSetTrig.vi

Set a sensor change trigger



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The input index



Trig

The change trigger



Device Out



Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

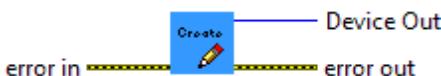
source describes the origin of the error or warning.

5.9 IR

5.9.1 IRCreate.vi

IRCreate.vi

Create a Phidget IR handle



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



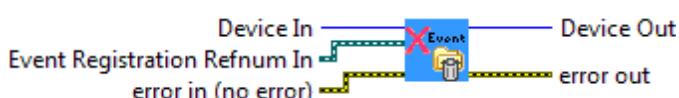
Device Out

Device # identification

5.9.2 IREventCloseOnCode.vi

IEventCloseOnCode.vi

Close the Phidget IR OnCode event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this

information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



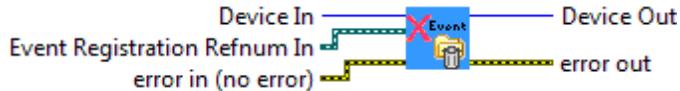
source

source string describes the origin of the error or warning.

5.9.3 IREventCloseOnLearn.vi

IEventCloseOnLearn.vi

Close the Phidget IR OnLearn event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

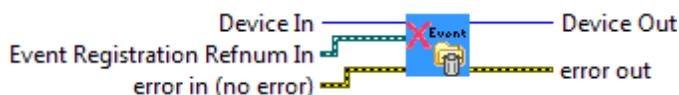
**source**

source string describes the origin of the error or warning.

5.9.4 IREventCloseOnRawData.vi

IEventCloseOnRawData.vi

Close the Phidget IR OnRawData event handle

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Event Registration Refnum In**

Event # Identification

**Device Out**



Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



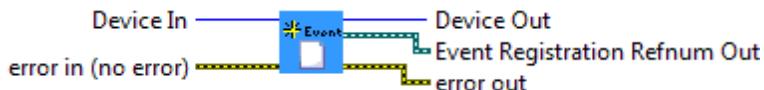
source

source string describes the origin of the error or warning.

5.9.5 IREventCreateOnCode.vi

IEventCreateOnCode.vi

Set up a Phidget IR OnCode event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out**

Same as Device In

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

source

source string describes the origin of the error or warning.

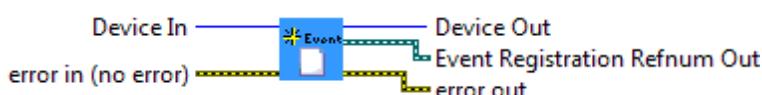
**Event Registration Refnum Out**

Event # Identification

5.9.6 IREventCreateOnLearn.vi

IEventCreateOnLearn.vi

Set up a Phidget IR OnLearn event handle.

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.



source describes the origin of the error or warning.

**Device Out**

Same as Device In



error out passes error or warning information out of a VI to be used by other VIs.



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source string describes the origin of the error or warning.

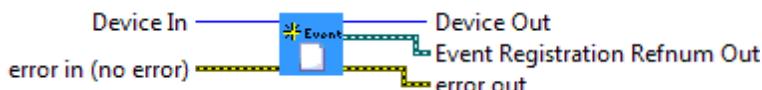
**Event Registration Refnum Out**

Event # Identification

5.9.7 IREventCreateOnRawData.vi

IREventCreateOnRawData.vi

Set up a Phidget IR OnRawData event handle.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkbox) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkbox) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



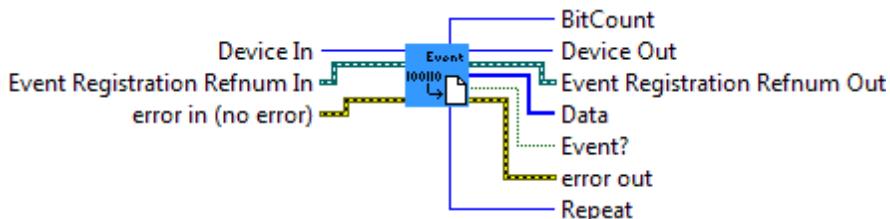
Event Registration Refnum Out

Event # Identification

5.9.8 IREventExeOnCode.vi

IEventExeOnCode.vi

This is called when a code has been received that could be automatically decoded. Data is return as an array with MSB in index 0. Bit count and a repeat flag are also returned. Repeats are detected as either the same code repeated in < 100ms or as a special repeat code.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Event Registration Refnum In**

Event # Identification

**Device Out**

Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**Event?**

Returns TRUE if the event has executed, or FALSE otherwise.

**BitCount**

The bit count of the code

**Repeat**

Returns the repeats

**Data**

A user array to store the code data in

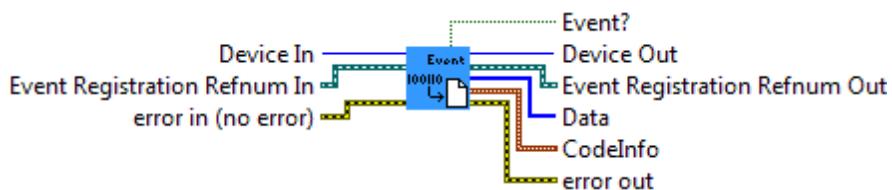
**Data****Event Registration Refnum Out**

Same as the Event Registration Refnum In

5.9.9 IREventExeOnLearn.vi

IREventExeOnLearn.vi

This is called when a code has been received for long enough to be learned. The returned CodeInfo structure can be used to retransmit the same code.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out



Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Event?

Returns TRUE if the event has executed, or FALSE otherwise.



CodeInfo

This contains all information needed to transmit a code. Please refer to [Phidgets Constants -> CodeInfo](#)



BitCount



Encoding



Length



Gap



Trail



Header 1



Header 2



One 1



One 2



Zero 1



Zero 2



Repeat 1

▶ I32	Repeat 2
▶ I32	Repeat 3
▶ I32	Repeat 4
▶ I32	Repeat 5
▶ I32	Repeat 6
▶ I32	Repeat 7
▶ I32	Repeat 8
▶ I32	Repeat 9
▶ I32	Repeat 10
▶ I32	Repeat 11
▶ I32	Repeat 12
▶ I32	Repeat 13
▶ I32	Repeat 14
▶ I32	Repeat 15
▶ I32	Repeat 16
▶ I32	Repeat 17
▶ I32	Repeat 18
▶ I32	Repeat 19
▶ I32	Repeat 20
▶ I32	Repeat 21
▶ I32	Repeat 22
▶ I32	Repeat 23
▶ I32	Repeat 24
▶ I32	Repeat 25
▶ I32	Repeat 26
▶ I32	min_repeat
▶ U8	toggle_mask 1
▶ U8	toggle_mask 2
▶ U8	toggle_mask 3
▶ U8	toggle_mask 4
▶ U8	toggle_mask 5
▶ U8	toggle_mask 6
▶ U8	toggle_mask 7
▶ U8	toggle_mask 8



toggle_mask 9
toggle_mask 10
toggle_mask 11
toggle_mask 12
toggle_mask 13
toggle_mask 14
toggle_mask 15
toggle_mask 16
CarrierFrequency
DutyCycle



Data

A user array to store the code data in.



Data



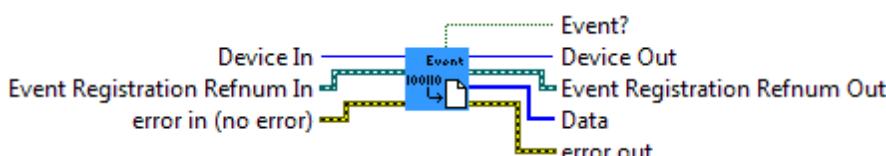
Event Registration Refnum Out

Same as the Event Registration Refnum In

5.9.10 IREventExeOnRawData.vi

IReEventExeOnRawData.vi

This is called when raw data has been read from the device. Raw data always starts with a space and ends with a pulse



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other

VI.



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.



source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out passes error or warning information out of a VI to be used by other VIs.



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.



source string describes the origin of the error or warning.



Event?

Returns TRUE if the event has executed, or FALSE otherwise.



Data

A user array for raw data to be written into

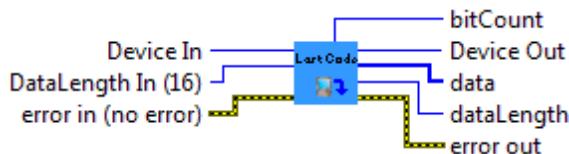
**data****Event Registration Refnum Out**

Same as the Event Registration Refnum In

5.9.11 IRGetLastCode.vi

IRGetLastCode.vi

Get the last code that was received.

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**DataLength In (16)**

Length of the user array - should be at least 16. This is set to the amount of data actually

written to the array



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



dataLength

Length of the user array.



bitCount

Set to the bit count of the code



data

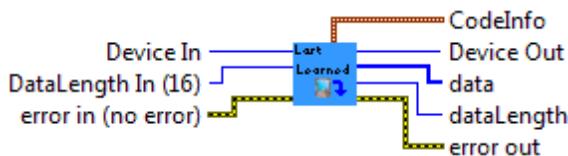
A user array to store the code



5.9.12 IRGetLastLearnedCode.vi

IRGetLastLearnedCode.vi

Get the last code that was learned.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



DataLength In (16)

Length of the user array - should be at least 16. This is set to the amount of data actually written to the array.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**dataLength**

Length of the user array

**CodeInfo**

The CodeInfo structure for the learned code.

Please refer to [Phidgets Constants](#) ->

CodeInfo**BitCount****Encoding****Length****Gap****Trail****Header 1****Header 2****One 1****One 2****Zero 1****Zero 2****Repeat 1****Repeat 2****Repeat 3****Repeat 4****Repeat 5****Repeat 6****Repeat 7**

**Repeat 8****Repeat 9****Repeat 10****Repeat 11****Repeat 12****Repeat 13****Repeat 14****Repeat 15****Repeat 16****Repeat 17****Repeat 18****Repeat 19****Repeat 20****Repeat 21****Repeat 22****Repeat 23****Repeat 24****Repeat 25****Repeat 26****min_repeat****toggle_mask 1****toggle_mask 2****toggle_mask 3****toggle_mask 4****toggle_mask 5****toggle_mask 6****toggle_mask 7****toggle_mask 8****toggle_mask 9****toggle_mask 10****toggle_mask 11****toggle_mask 12****toggle_mask 13****toggle_mask 14**

**toggle_mask 15****toggle_mask 16****CarrierFrequency****DutyCycle****data**

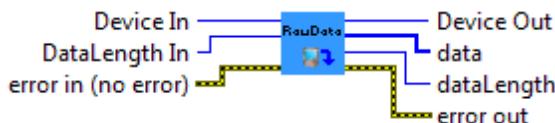
A user array to store the code data in.



5.9.13 IRGetRawData.vi

IRGetRawData.vi

Read any available raw data. This should be polled continuously (every 20ms) to avoid missing data.
Read data always starts with a space and ends with a pulse

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.



DataLength In

The maximum amount of data to read. This is set to the actual amount of data read



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



dataLength

The amount of data to read



data

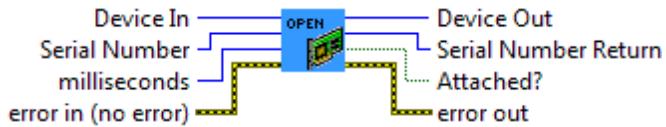
A user array for raw data to be written into



5.9.14 IROpen.vi

IROpen.vi

Open a PhidgetIR.



Serial Number

Serial Number. Specify -1 to open any.



milliseconds
Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)



error in (no error)

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device In

Device # Identification. This function will create a new device identification if it's 0



Serial Number Return

Serial Number of the opened phidget



Attached?

Returns TRUE is the device successfully attached, or FALSE otherwise.



error out

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

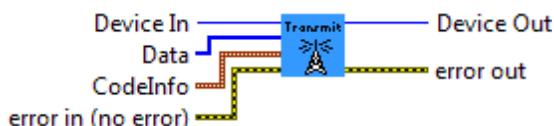
**Device Out**

Same as Device In

5.9.15 IRTransmit.vi

IRTransmit.vi

Transmit a code according to the settings in a CodeInfo structure.

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

 abc

source

source describes the origin of the error or warning.

 006

CodeInfo

The CodeInfo structure specifying to send the code. Anything left as null to select default is filled in for the user. Please refer to [Phidgets Constants -> CodeInfo](#)

BitCount

Encoding

Length

Gap

Trail

Header 1

Header 2

One 1

One 2

Zero 1

Zero 2

Repeat 1

Repeat 2

Repeat 3

Repeat 4

Repeat 5

Repeat 6

Repeat 7

Repeat 8

Repeat 9

Repeat 10

Repeat 11

Repeat 12

Repeat 13

Repeat 14**Repeat 15****Repeat 16****Repeat 17****Repeat 18****Repeat 19****Repeat 20****Repeat 21****Repeat 22****Repeat 23****Repeat 24****Repeat 25****Repeat 26****min_repeat****toggle_mask 1****toggle_mask 2****toggle_mask 3****toggle_mask 4****toggle_mask 5****toggle_mask 6****toggle_mask 7****toggle_mask 8****toggle_mask 9****toggle_mask 10****toggle_mask 11****toggle_mask 12****toggle_mask 13****toggle_mask 14****toggle_mask 15****toggle_mask 16****CarrierFrequency****DutyCycle****Data**

The code to send. Data is transmitted MSBit first. MSByte is in array index 0. LSBit is right justified, so MSBit may be in bit positions 0-7 in array index 0 depending on the bit count.



Data



Device Out



Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



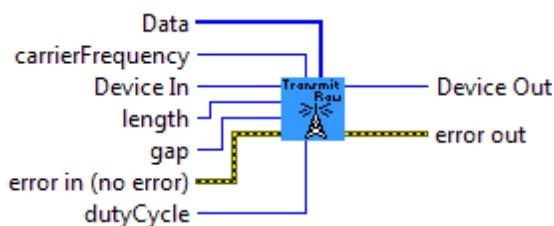
source

source describes the origin of the error or warning.

5.9.16 IRTransmitRaw.vi

IRTransmitRaw.vi

Transmit RAW data as a series of pulses and spaces.





Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



length

The length of the data array. Maximum length is 1024, but streams should be kept much shorter, ie. < 100ms between gaps



carrierFrequency

The Carrier Frequency in Hz. leave as 0 for default



dutyCycle

The Duty Cycle (10-50). Leave as 0 for default



gap

The gap time in us. This guarantees a gap time (no transmitting) after the data is sent, but can be set to 0.



Data

The data to send. The array must start and end



with a pulse and each element is a positive time in us.

data



Device Out



Same as Device In

error out



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code



code is the error or warning code.

source

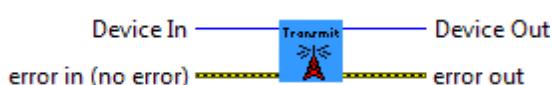


source describes the origin of the error or warning.

5.9.17 IRTransmitRepeat.vi

IRTransmitRepeat.vi

Transmits a repeat of the last transmitted code. Depending on the CodeInfo structure, this may be a retransmission of the code itself, or there may be a special repeat code



Device In

Device # Identification.



error in (no error)

error in can accept error information wired

from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.

5.10 LED

5.10.1 LEDCount.vi

LEDCount.vi

Get the number of LEDs supported by this board.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

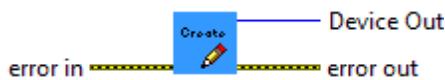
**Count**

The LED count

5.10.2 LEDCreate.vi

LEDCreate.vi

Create a Phidget LED handle

**error in**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**error out**

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



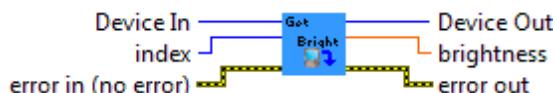
Device Out

Device # identification.

5.10.3 LEDGetBrightness.vi

LEDGetBrightness.vi

Get the brightness of an LED



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or

that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The input index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



brightness

The LED brightness (0-100).

5.10.4 LEDGetCurrentLimit.vi

LEDGetCurrentLimit.vi

Get the current limit. This is for all outputs



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code****code** is the error or warning code.**source****source** describes the origin of the error or warning.**CurrentLimit**

The current limit

5.10.5 LEDGetCurrentLimitIndexed.vi

LEDGetCurrentLimitIndexed.vi

Gets an indexed current limit.

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code****code** is the error or warning code.**source****source** describes the origin of the error or warning.

**index**

The LED index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

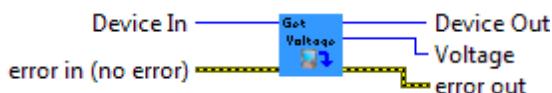
**Current Limit**

The current limit

5.10.6 LEDGetVoltage.vi

LEDGetVoltage.vi

Get the output voltage. This is for all outputs.

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



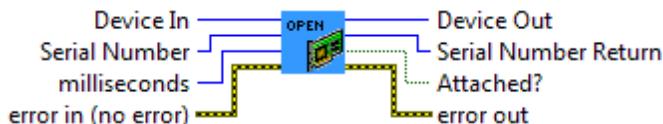
Voltage

The output voltage

5.10.7 LEDOpen.vi

LEDOpen.vi

Open a Phidget LED.



Serial Number

Serial Number. Specify -1 to open any.



milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)



error in (no error)

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device In

Device # identification. This function will create a new device identification if it's 0 or invalid



Serial Number Return

Serial Number of the opened phidget



Attached?

Returns TRUE is the device successfully

attached, or FALSE otherwise.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source string describes the origin of the error or warning.



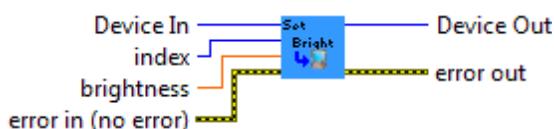
Device Out

Same as Device In

5.10.8 LEDSetBrightness.vi

LEDSetBrightness.vi

Set the brightness of an LED



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The LED index

**brightness**

The LED brightness (0-100).

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

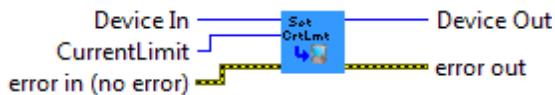
**source**

source describes the origin of the error or warning.

5.10.9 LEDSetCurrentLimit.vi

LEDSetCurrentLimit.vi

Set the current limit. This is for all outputs



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



CurrentLimit

The current limit



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



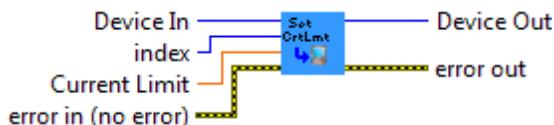
source

source describes the origin of the error or warning.

5.10.10 LEDSetCurrentLimitIndexed.vi

LEDSetCurrentLimitIndexed.vi

Sets the indexed current limit.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.

**index**

The LED index

**Current Limit**

The current limit

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

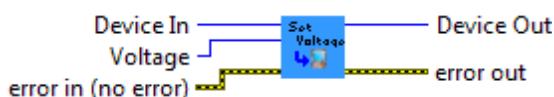
**source**

source describes the origin of the error or warning.

5.10.11 LEDSetVoltage.vi

LEDSetVoltage.vi

Set the output voltage. This is for all outputs.

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Voltage**

The output voltage

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

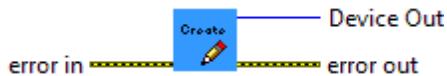
source describes the origin of the error or warning.

5.11 MotorControl

5.11.1 MCCreate.vi

MCCreate.vi

Create a Phidget Motor Control handle



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

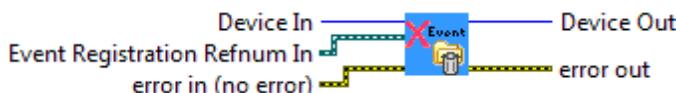
source string describes the origin of the error or warning.

**Device Out**

Device # identification.

5.11.2 MCEventCloseCurrent.vi**MCEventCloseCurrent.vi**

Close the Phidget Motor Control current change event handle

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Event Registration Refnum In**

Event # Identification

**Device Out**

Same as Device In

**error out**

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



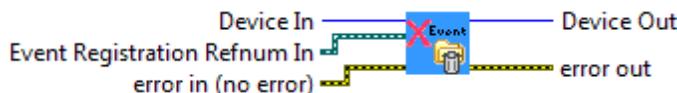
source

source string describes the origin of the error or warning.

5.11.3 MCEventCloseEMF.vi

MCEventCloseEMF.vi

Close the Phidget Motor Control EMF change event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Event Registration Refnum In**

Event # Identification

**Device Out**

Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.

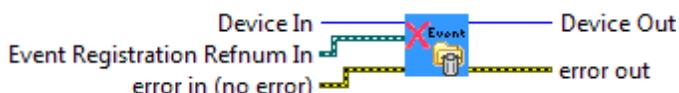
source

source string describes the origin of the error or warning.

5.11.4 MCEventCloseInput.vi

MCEventCloseInput.vi

Close the Phidget Motor Control input change event handle

**Device In****error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other

VI.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.



source

source describes the origin of the error or warning.



**Event Registration Refnum In
Device Out**



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



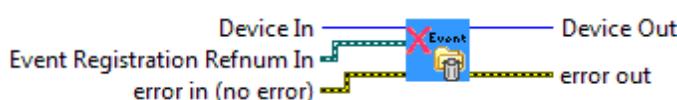
source

source string describes the origin of the error or warning.

5.11.5 MCEventClosePositionChange.vi

MCEventClosePositionChange.vi

Close the Phidget motor controller position change event handler





Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

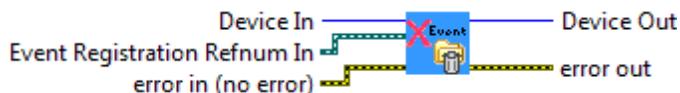
source string describes the origin of the error

or warning.

5.11.6 MCEventClosePositionUpdate.vi

MCEventClosePositionUpdate.vi

Close the phidget motor controller position update event handle



Device In



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In



Device Out



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or

that no error occurred.



code

code is the error or warning code.



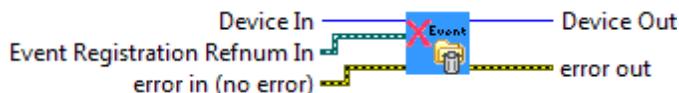
source

source string describes the origin of the error or warning.

5.11.7 MCEventCloseSensorUpdate.vi

MCEventCloseSensorUpdate.vi

Close the Phidget Motor controller Sensor update event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



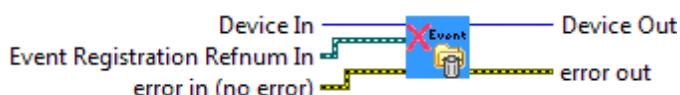
source

source string describes the origin of the error or warning.

5.11.8 MCEventCloseVelocity.vi

MCEventCloseVelocity.vi

Close the Phidget Motor Control velocity change event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



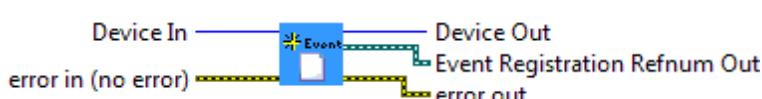
code is the error or warning code.



source string describes the origin of the error or warning.

5.11.9 MCEventCreateCurrentChange.vi

MCEventCreateCurrentChange.vi



Device In

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out****error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

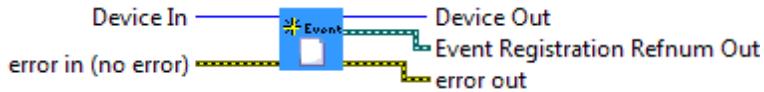
**source**

source string describes the origin of the error or warning.

**Event Registration Refnum Out**

5.11.10 MCEventCreateCurrentUpdate.vi

MCEventCreateCurrentUpdate.vi



Device In

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.

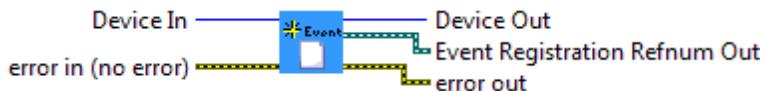


Event Registration Refnum Out

5.11.11 MCEventCreateEMF.vi

MCEventCreateEMF.vi

Create the Phidget Motor Control EMF change event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkbox) to indicate a warning or that no error occurred.



code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkbox) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



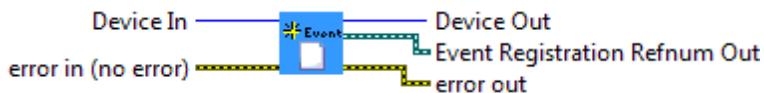
Event Registration Refnum Out

Event # Identification

5.11.12 MCEventCreateInput.vi

MCEventCreateInput.vi

Create the Phidget Motor Control input change event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

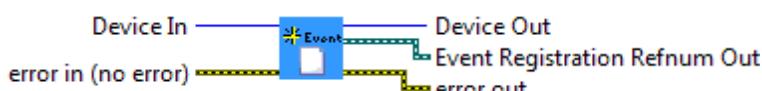
source describes the origin of the error or warning.

**Device Out****Same as Device In****error out****error out** passes error or warning information out of a VI to be used by other VIs.**status** is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.**code** is the error or warning code.**source** string describes the origin of the error or warning.**Event Registration Refnum Out**

Event # Identification

5.11.13 MCEventCreatePositionChange.vi**MCEventCreatePositionChange.vi**

Create the Phidget motor controller position change event handler

**Device In**

Device # Identification.

**error in (no error)****error in** can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out**

Same as Device In

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

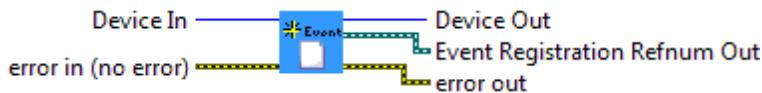
**Event Registration Refnum Out**

Event # Identification

5.11.14 MCEventCreatePositionUpdate.vi

MCEventCreatePositionUpdate.vi

Create the phidget motor controller position update event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



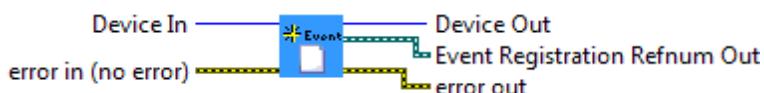
Event Registration Refnum Out

Event # Identification

5.11.15 MCEventCreateSensorUpdate.vi

MCEventCreateSensorUpdate.vi

Create the Phidget Motor controller Sensor update event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



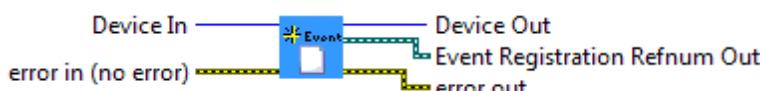
Event Registration Refnum Out

Event # Identification

5.11.16 MCEventCreateVelocity.vi

MCEventCreateVelocity.vi

Create the Phidget Motor Control velocity change event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out**

Same as Device In



error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

source

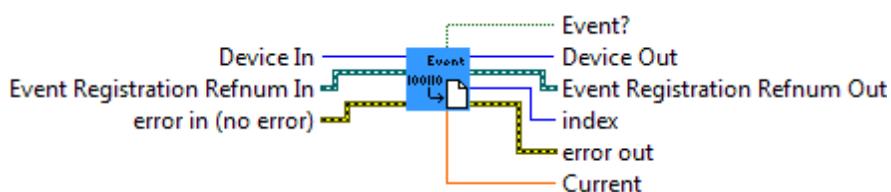
source string describes the origin of the error or warning.

**Event Registration Refnum Out**

Event # Identification

5.11.17 MCEventExeCurrent.vi**MCEventExeCurrent.vi**

Eexecutes on an MC Current change event





Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Current

The current



index

The motor index



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**Event?**

Returns TRUE if the event has executed, or FALSE otherwise.

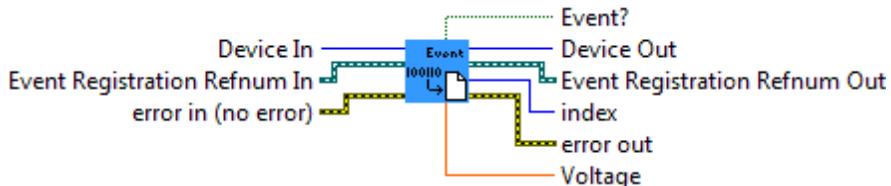
**Event Registration Refnum Out**

Event # Identification

5.11.18 MCEventExeEMF.vi

MCEventExeEMF.vi

Executes on an EMF event

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Voltage

The votlage



index



The motor index

Device Out



Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Event?

Returns TRUE if the event has executed, or FALSE otherwise.



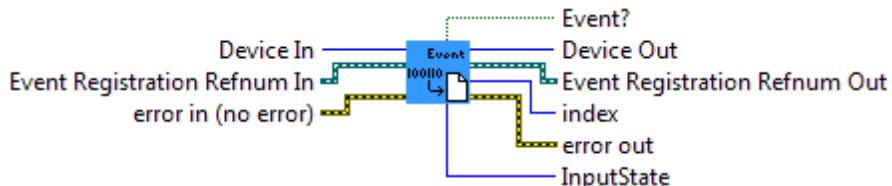
Event Registration Refnum Out

Event # Identification

5.11.19 MCEventExeInput.vi

MCEventExeInput.vi

Executes when the state of a digital input changes.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.



source

source describes the origin of the error or warning.



Device In

Device # Identification.



Event Registration Refnum In

Event # Identification



index

The input index



InputState

The state of the input

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**Device Out**

Same as Device In

**Event?**

Returns TRUE if the event has executed, or FALSE otherwise.

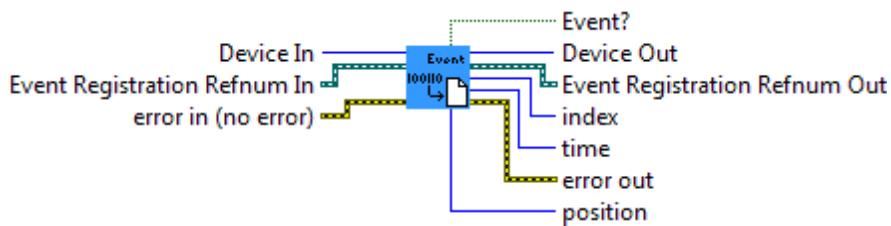
**Event Registration Refnum Out**

Event # Identification

5.11.20 MCEventExePositionChange.vi

MCEventExePositionChange.vi

Executes if the motor's position changes.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this

information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device In

Device # Identification.



Event Registration Refnum In



Event # Identification



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device Out

Same as Device In



Event?

Returns TRUE if the event has executed, or FALSE otherwise.



Event Registration Refnum Out

Event # Identification



index

The encoder index



time

The amount of time in which PositionChange counts occurred in 1/3 ms



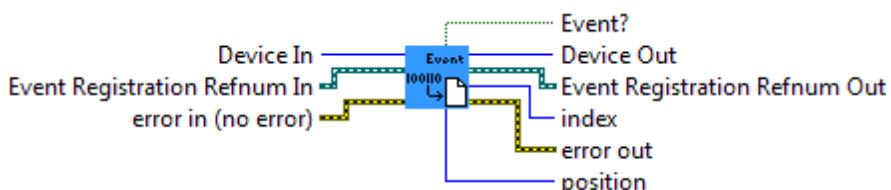
position

The change in encoder position

5.11.21 MCEventExePositionUpdate.vi

MCEventExePositionUpdate.vi

Executes every 8ms regardless of is the position changed or not.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device In**

Device # Identification.

**Event Registration Refnum In**

Event # Identification



The motor index



position

The change in position



error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.

**Device Out**

Same as Device In



Event?

Returns TRUE if the event has executed, or FALSE otherwise.

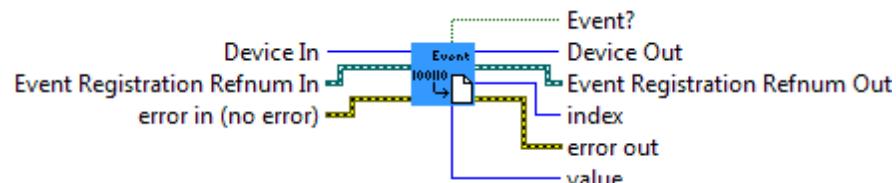
**Event Registration Refnum Out**

Event # Identification

5.11.22 MCEventExeSensorUpdate.vi

MCEventExeSensorUpdate.vi

An event containing sensor value information for sensors plugged into the Analog Inputs.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device In

Device # Identification.



Event Registration Refnum In

Event # Identification



index

The motor index



value

The sensor's value

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**Device Out**

Same as Device In

**Event?**

Returns TRUE if the event has executed, or FALSE otherwise.

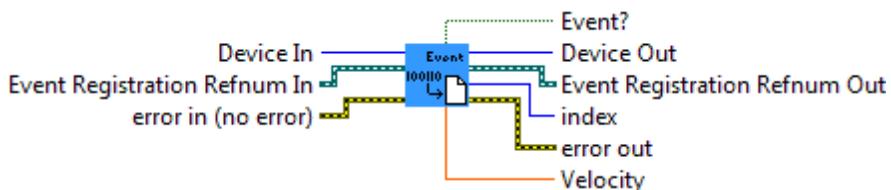
**Event Registration Refnum Out**

Event # Identification

5.11.23 MCEventExeVelocity.vi

MCEventExeVelocity.vi

Executes when the velocity a motor is being driven at changes

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Event Registration Refnum In**

Event # Identification

**Velocity**

The velocity

**index**

The motor index

**Device Out**

Same as Device In

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.



Event?

Returns TRUE if the event has executed, or FALSE otherwise.



Event Registration Refnum Out

Event # Identification

5.11.24 MCGetAcceleration.vi

MCGetAcceleration.vi

Gets the motor's acceleration



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.

**index**

The motor index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Acceleration**

The acceleration

5.11.25 MCGetAccelerationMax.vi

MCGetAccelerationMax.vi

Gets the maximum settable acceleration.

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index****Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Acceleration Max**

Maximum acceleration

5.11.26 MCGetAccelerationMin.vi

MCGetAccelerationMin.vi

Gets the minimum settable acceleration.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



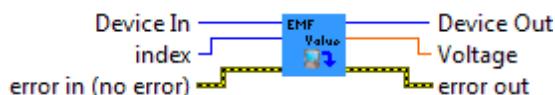
Acceleration Min

Minimum acceleration.

5.11.27 MCGetBackEMFValue.vi

MCGetBackEMFValue.vi

Gets the back EMF voltage



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.



source describes the origin of the error or warning.

**index**

The motor index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

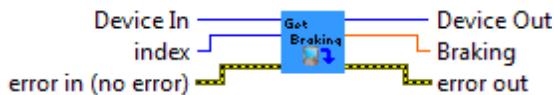
**Voltage**

The back EMF voltage

5.11.28 MCGetBraking.vi

MCGetBraking.vi

Gets the braking amount for the motor at rest.



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

VI.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.



source

source describes the origin of the error or warning.



Braking

The braking percentage (0- 100%)

5.11.29 MCGetCurrent.vi

MCGetCurrent.vi

Get the current flowing through the motor.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



Device Out



Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



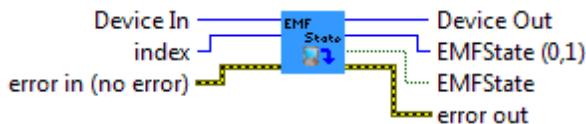
Current

The current

5.11.30 MCGetEMFState.vi

MCGetEMFState.vi

Get the EMF sensing state. When back-EMF sensing is enabled, the motor will coast (freewheel) 5% of the time while the back EMF measurement is taken.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or

that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



EMFState (0,1)

The EMF sensing state. Possible values are 0 for False, 1 for True and others for undefined



EMFState

The EMF sensing state. Possible values are True for Enabled and False for Not Enabled

5.11.31 MCGetEncoderCount.vi

MCGetEncoderCount.vi

Returns the number of encoder inputs



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



EncoderCount

The number of encoder inputs

5.11.32 MCGetEncoderPosition.vi

MCGetEncoderPosition.vi

Gets the encoder position.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The encoder index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

**source**

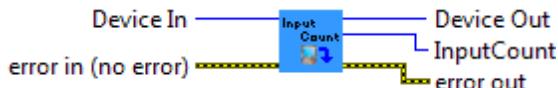
source describes the origin of the error or warning.

**Position**

Encoder position

5.11.33 MCGetInputCount.vi**MCGetInputCount.vi**

Get the number of digital inputs on the motor controller.

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

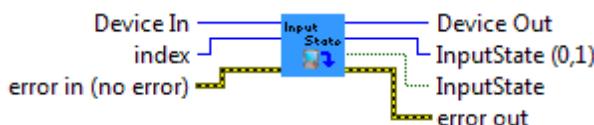
**InputCount**

The number of digital inputs.

5.11.34 MCGetInputState.vi

MCGetInputState.vi

Gets the state of the digital input.

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The input index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**InputState (0,1)**

The input state. Possible values are 0 for False, 1 for True and others for undefined

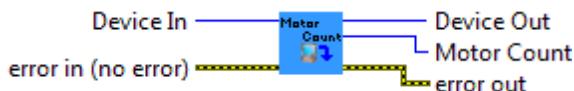
**InputState**

The input state. (boolean)

5.11.35 MCGetMotorCount.vi

MCGetMotorCount.vi

Gets the number of motors the controller can handle.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other

VI.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.



source

source describes the origin of the error or warning.



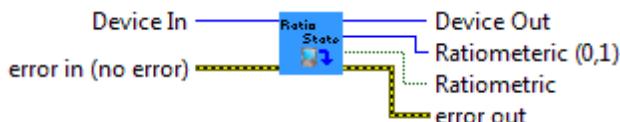
Motor Count

The number of motors

5.11.36 MCGetRatiometricState.vi

MCGetRatiometricState.vi

Gets the ratiometric state for the analog inputs.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Ratiometric (0,1)**

The ratiometric state. Possible values are 0 for False, 1 for True and others for undefined

**Ratiometric**

The ratiometric state of the input (boolean)

5.11.37 MCGetSenorCount.vi

MCGetSenorCount.vi

The number of analog sensors the MC can accomodate.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



SensorCount

The number of sensors

5.11.38 MCGetSensorValue.vi

MCGetSensorValue.vi

Gets the current value for a sensor input. Range is 0-1000



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index



The sensor index

Device Out



Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Value

The sensor value

5.11.39 MCGetSensorValueRAW.vi

MCGetSensorValueRAW.vi

Gets the raw 12-bit value for a sensor input. Range is 0-4096



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The sensor index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Value (Raw)**

The raw sensor value

5.11.40 MCGetSupplyVoltage.vi**MCGetSupplyVoltage.vi**

Gets the voltage of the poser supply.

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this

information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Voltage

The voltage

5.11.41 MCGetVelocity.vi

MCGetVelocity.vi

Velocity is the percentage of time the motor is being powered for, from -100% to 100%



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or

that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



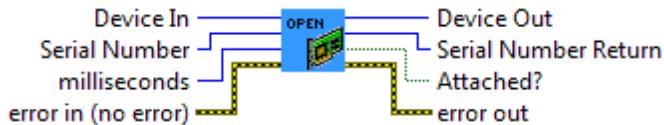
Velocity

The velcoity

5.11.42 MCOpen.vi

MCOpen.vi

Open a Phidget Motor controller



Serial Number

Serial Number. Specify -1 to open any.

milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)



error in (no error)

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.



source

source string describes the origin of the error or warning.



Device In

Device # identification. This function will create a new device identification if it's 0 or invalid



Serial Number Return

Serial Number of the opened phidget



Attached?

Returns TRUE is the device successfully attached, or FALSE otherwise.



error out

error out passes error or warning information

out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.



source

source string describes the origin of the error or warning.



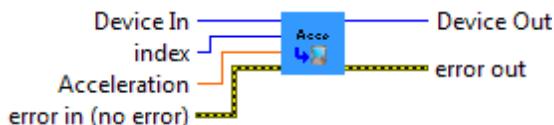
Device Out

Same as Device In

5.11.43 MCSetAcceleration.vi

MCSetAcceleration.vi

Set the motor's acceleration (in % duty cycle/second)



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The motor index

**Acceleration**

The acceleration.

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

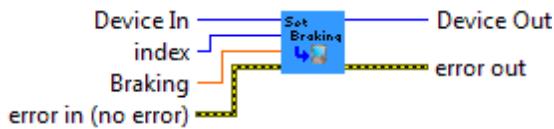
**source**

source describes the origin of the error or warning.

5.11.44 MCSetBraking.vi

MCSetBraking.vi

Set the braking amount for a motor at rest.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



Braking

The breaking duty cycle



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

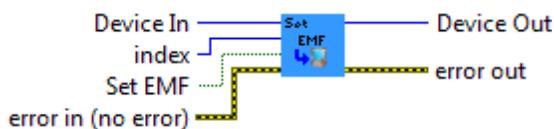
**source**

source describes the origin of the error or warning.

5.11.45 MCSetEMFState.vi

MCSetEMFState.vi

Set the EMF Sensing State

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or

warning.



Set EMF

The EMF Sensing State
index



The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.



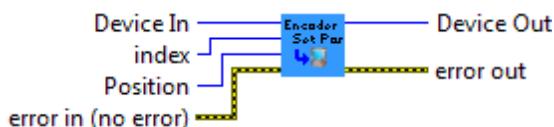
source

source describes the origin of the error or warning.

5.11.46 MCSetEncoderPosition.vi

MCSetEncoderPosition.vi

Set the encoder position



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The encoder index



Position

The position



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

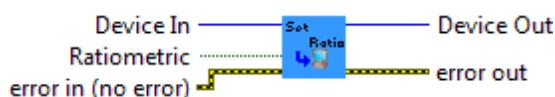
**source**

source describes the origin of the error or warning.

5.11.47 MCSetRatiometricState.vi

MCSetRatiometricState.vi

Set the ratiometric state for the device.

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Ratiometric**

The ratiometric state

**Device Out**



Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



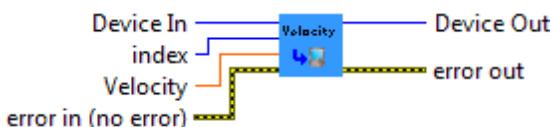
source

source describes the origin of the error or warning.

5.11.48 MCSetVelocity.vi

MCSetVelocity.vi

Set the Motor controller velocity in % duty cycle from -100% to 100%



Device In



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or



that no error occurred.



code is the error or warning code.

source

source describes the origin of the error or warning.



index

Velocity

Device Out

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.

5.12 PHSensor

5.12.1 PHCreate.vi

PHCreate.vi

Create a Phidget PH Sensor handle.



**error in**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.



source string describes the origin of the error or warning.

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

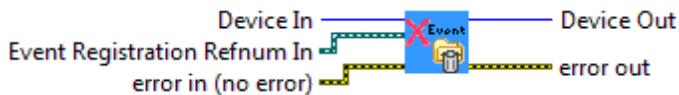
**Device Out**

Device # identification

5.12.2 PHEventClose.vi

PHEventClose.vi

Close the Phidget PH Sensor change event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



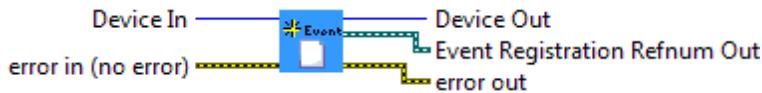
source

source string describes the origin of the error or warning.

5.12.3 PHEventCreate.vi

PHEventCreate.vi

Set up a PH change event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



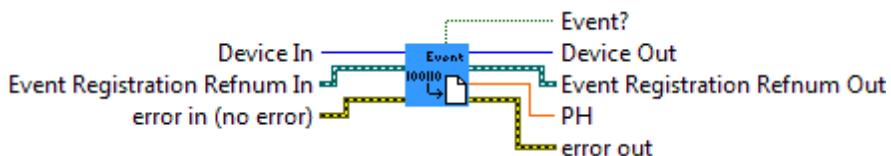
Event Registration Refnum Out

Event # Identification

5.12.4 PHEventExe.vi

PHEventExe.vi

This is called when the PH changes by more than the change trigger



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or

FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Event Registration Refnum In**

Event # Identification

**PH**

The PH

**Device Out**

Same as Device In

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**Event?**

Returns TRUE if the event has executed, or FALSE otherwise.

**Event Registration Refnum Out**

Same as the Event Registration Refnum In

5.12.5 PHGetPH.vi

PHGetPH.vi

Get the measured PH



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



PH

The PH

5.12.6 PHGetPHMax.vi

PHGetPHMax.vi

Get the maximum PH that the sensor could report



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



PH Max

The maximum PH

5.12.7 PHGetPHMin.vi

PHGetPHMin.vi

Get the minimum PH that the sensor could report



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**PH Min**

The minimum PH

5.12.8 PHGetPHTrigger.vi

PHGetPHTrigger.vi

Get the PH change trigger



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



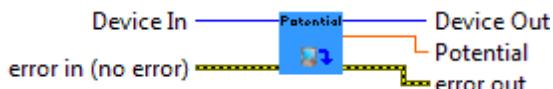
PH Trigger

The change trigger

5.12.9 PHGetPotential.vi

PHGetPotential.vi

Get the sensed potential



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Potential

The potential

5.12.10 PHGetPotentialMax.vi

PHGetPotentialMax.vi

Get the maximum potential that can be sensed



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.



source describes the origin of the error or warning.

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.



source describes the origin of the error or warning.

**Potential Max**

The maximum potential

5.12.11 PHGetPotentialMin.vi

PHGetPotentialMin.vi

Get the minimum potential that can be sensed



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



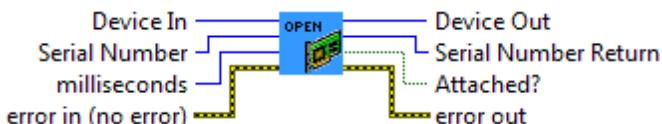
Potential Min

The minimum potential

5.12.12 PHOpen.vi

PHOpen.vi

Open a Phidget PH Sensor



Serial Number

Serial Number. Specify -1 to open any.



milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)



error in (no error)

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device In

Device # identification. This function will create a new device identification if it's 0 or invalid



Serial Number Return

Serial Number of the opened phidget



Attached?

Returns TRUE is the device successfully attached, or FALSE otherwise.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device Out

Same as Device In

5.12.13 PHSetTemperature.vi

PHSetTemperature.vi

Set the temperature to be used for PH calculations



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Temperature

The temperature (degrees celcius). By default this is 20.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or

FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



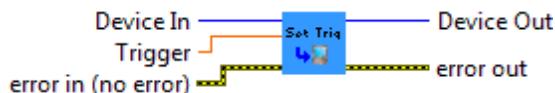
source

source describes the origin of the error or warning.

5.12.14 PHSetTrig.vi

PHSetTrig.vi

Set the PH change trigger.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Trigger



The change trigger

Device Out



Same as Device In



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code



code is the error or warning code.



source

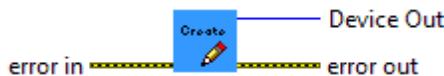
source describes the origin of the error or warning.

5.13 RFID

5.13.1 RFIDCreate.vi

RFIDCreate.vi

Create a Phidget RFID handle



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or

that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



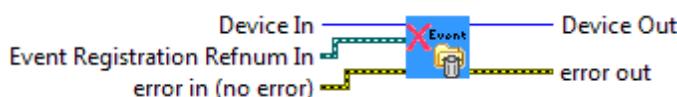
Device Out

Device # identification

5.13.2 RFIDEventClose.vi

RFIDEventClose.vi

Close the Phidget RFID Tag or TagLost event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.



source describes the origin of the error or warning.

**Event Registration Refnum In**

Event # Identification

**Device Out**

Same as Device In



error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

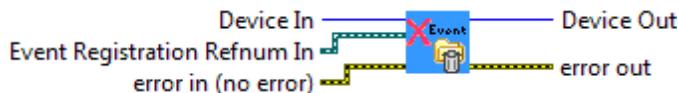


source string describes the origin of the error or warning.

5.13.3 RFIDEEventClose2.vi

RFIDEEventClose2.vi

Close the Phidget RFID Tag or TagLost event handle (2)



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



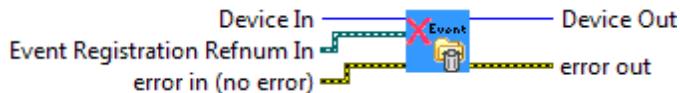
source

source string describes the origin of the error or warning.

5.13.4 RFIDEVENTCLOSEOUTPUT.VI

RFIDEVENTCLOSEOUTPUT.VI

Close the Phidget RFID output change event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.

**Event Registration Refnum In****Event # Identification****Device Out****Same as Device In****error out** passes error or warning information out of a VI to be used by other VIs.**status****status** is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.**code****code** is the error or warning code.**source** string describes the origin of the error or warning.

5.13.5 RFIDEvetCreateOutput.vi

RFIDEvetCreateOutput.vi

Set up an output change event handle.

**Device In****Device # Identification.****error in (no error)****error in** can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.**status**



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.



source describes the origin of the error or warning.



Device Out



Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source string describes the origin of the error or warning.



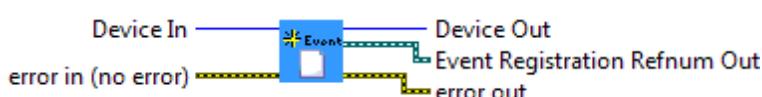
Event Registration Refnum Out

Event # Identification

5.13.6 RFIDEventCreateTag.vi

RFIDEventCreateTag.vi

Set up a tag change event handle





Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.



source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



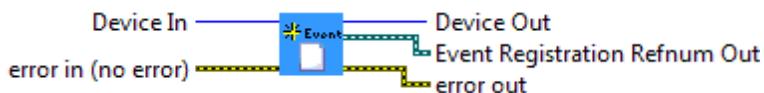
Event Registration Refnum Out

Event # Identification

5.13.7 RFIDEvetCreateTag2.vi

RFIDEvetCreateTag2.vi

Set up a tag change event handle (2)



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



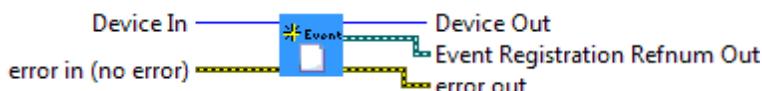
Event Registration Refnum Out

Event # Identification

5.13.8 RFIDEvetCreateTagLost.vi

RFIDEvetCreateTagLost.vi

Set up a tag lost event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.



source string describes the origin of the error or warning.



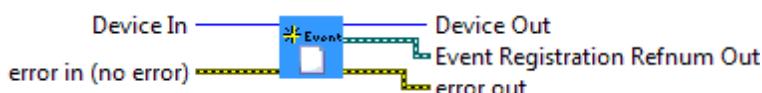
Event Registration Refnum Out

Event # Identification

5.13.9 RFIDEventCreateTagLost2.vi

RFIDEventCreateTagLost2.vi

Set up a tag lost event handle (2)



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this

information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



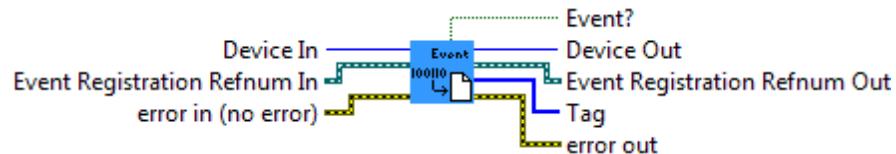
Event Registration Refnum Out

Event # Identification

5.13.10 RFIDEVENTEXE.VI

RFIDEVENTEXE.VI

This is called when the Phidget RFID Tag or TagLost event changes. Tag Event is called when a tag is first detected by the reader. TagLost Event is called when a tag is no longer detected by the reader



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or

FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Event?

Returns TRUE if the event has executed, or FALSE otherwise.



Tag

The tag.



a



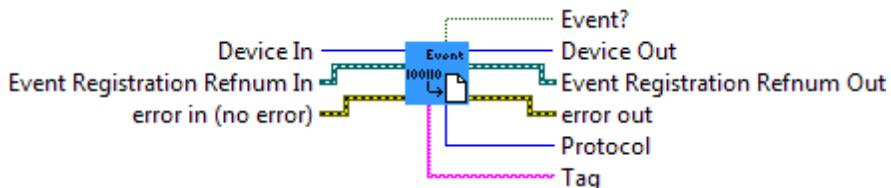
Event Registration Refnum Out

Same as the Event Registration Refnum In

5.13.11 RFIDEVENTEXE2.VI

RFIDEVENTEXE2.VI

This is called when the Phidget RFID Tag or TagLost event changes. (2)



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should

be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Event?

Returns TRUE if the event has executed, or FALSE otherwise.



Tag

The tag.



Protocol

The protocol being used.



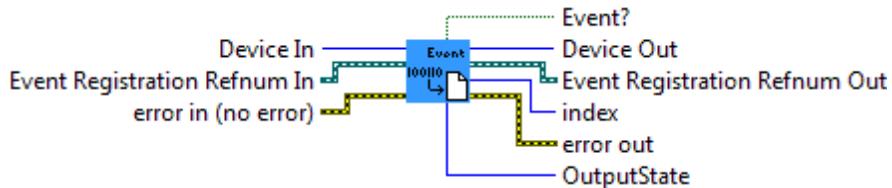
Event Registration Refnum Out

Event # Identification

5.13.12 RFIDEVENTEXEOUTPUT.VI

RFIDEVENTEXEOUTPUT.VI

This is called when an output changes



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkbox) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification

**Device In**

Device # Identification.

**index**

The output index

**OutputState**

The output state. Possible values are 0 for False, 1 for True and others for undefined

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**Event Registration Refnum Out**

Event # Identification

**Device Out**

Same as Device In

**Event?**

Returns TRUE if the event has executed, or FALSE otherwise.

5.13.13 RFIDGetAntennaState.vi

RFIDGetAntennaState.vi

Get the state of the antenna



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Antenna State

The antenna state. Possible values are 0 for False, 1 for True and others for undefined.



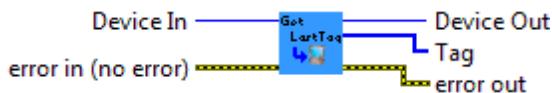
Antenna On?

The antenna state

5.13.14 RFIDGetLastTag.vi

RFIDGetLastTag.vi

Get the last tag read by the reader. This tag may or may not still be on the reader



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Tag

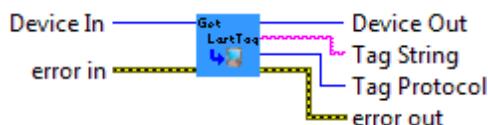
The tag. This must be an unsigned char array of size 5.



5.13.15 RFIDGetLastTag2.vi

RFIDGetLastTag2.vi

Get the last tag read by the reader. This tag may or may not still be on the reader. (2)



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device In

Device # Identification.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device Out

Same as Device In



Tag String

The tag string



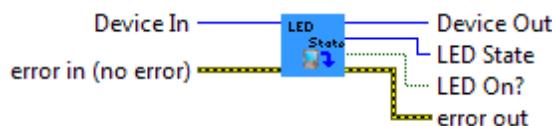
Tag Protocol

The tag protocol

5.13.16 RFIDGetLEDState.vi

RFIDGetLEDState.vi

Get the state of the onboard LED



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should

be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



LED State

The LED state. Possible values are 0 for False, 1 for True and others for undefined



LED On?

The LED state

5.13.17 RFIDGetOutputCount.vi

RFIDGetOutputCount.vi

Get the number of outputs supported by this board.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.



source describes the origin of the error or warning.

**Device Out**

Same as Device In



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

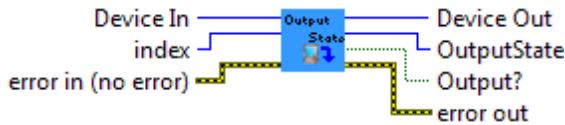
**count**

The number of outputs.

5.13.18 RFIDGetOutputState.vi

RFIDGetOutputState.vi

Get the state of an output



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source describes the origin of the error or warning.



index

The output index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or

that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



OutputState

The output state. Possible values are 0 for False, 1 for True and others for undefined



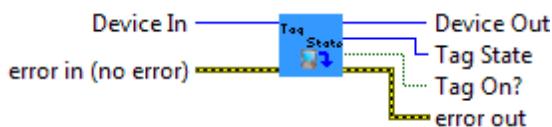
Output?

The output state.

5.13.19 RFIDGetTagState.vi

RFIDGetTagState.vi

Get the tag present status. This is whether or not a tag is being read by the reader.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Tag State

The tag state. Possible values are 0 for False, 1 for True and others for undefined.



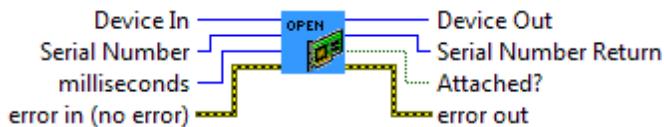
Tag On?

The tag state

5.13.20 RFIDOpen.vi

RFIDOpen.vi

Open a Phidget RFID



Serial Number

Serial Number. Specify -1 to open any.



milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)



error in (no error)

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device In

Device # identification. This function will create a new device identification if it's 0 or invalid



Serial Number Return

Serial Number of the opened phidget



Attached?

Returns TRUE if the device successfully attached, or FALSE otherwise.



error out

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

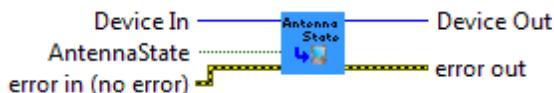
**Device Out**

Same as Device In

5.13.21 RFIDSetAntennaState.vi

RFIDSetAntennaState.vi

Set the state of the antenna. Note that the antenna must be enabled before tags will be read

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**AntennaState**

The antenna state

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

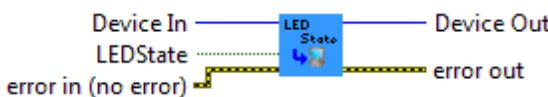
**source**

source describes the origin of the error or warning.

5.13.22 RFIDSetLEDState.vi

RFIDSetLEDState.vi

Set the state of the onboard LED

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**LEDState**

Set the LED state

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

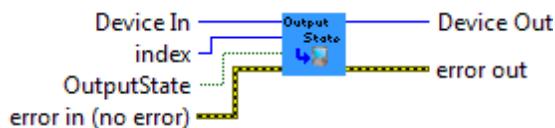
**source**

source describes the origin of the error or warning.

5.13.23 RFIDSetOutputState.vi

RFIDSetOutputState.vi

Set the state of an output



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



OutputState

Set the output state



index

The output index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



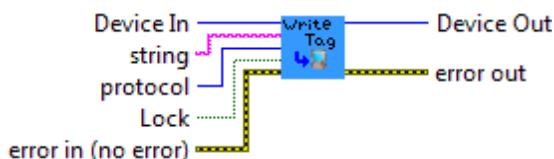
source

source describes the origin of the error or warning.

5.13.24 RFIDWriteTag.vi

RFIDWriteTag.vi

Write an RFID Tag



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or



that no error occurred.



code is the error or warning code.



source describes the origin of the error or warning.



string



The data to send



The protocol to use

Lock



Locks the tag from further writes.



Device Out



Same as Device In

error out



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

source



source describes the origin of the error or warning.

5.14 Servo

5.14.1 ServoCount.vi

ServoCount.vi

Gets the number of motors supported by this controller.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

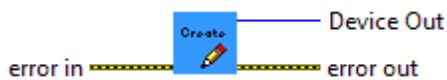
**Count**

The motor count.

5.14.2 ServoCreate.vi

ServoCreate.vi

Create a Phidget Servo handle.

**error in**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**error out**

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



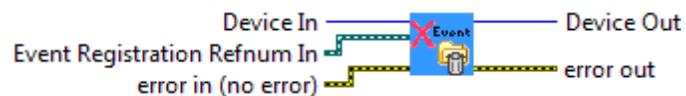
Device Out

Device # identification

5.14.3 ServoEventClose.vi

ServoEventClose.vi

Close the Phidget Servo event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or

that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



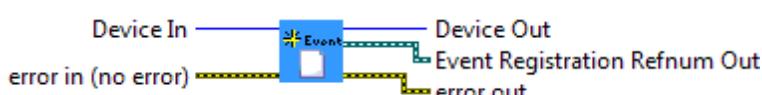
source

source string describes the origin of the error or warning.

5.14.4 ServoEventCreate.vi

ServoEventCreate.vi

Set up a position change event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



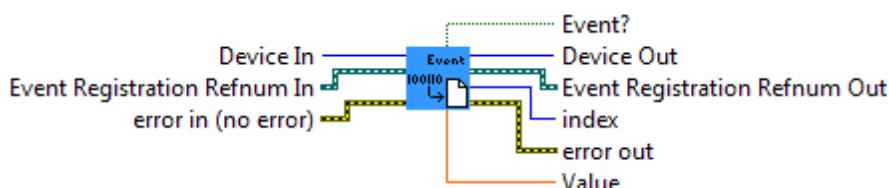
Event Registration Refnum Out

Event # Identification

5.14.5 ServoEventExe.vi

ServoEventExe.vi

This is called when the Phidget Advanced Servo event occurs



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Value

The return value of the position

**index**

The servo index

**Device Out**

Same as Device In

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**Event Registration Refnum Out**

Same as the Event Registration Refnum In

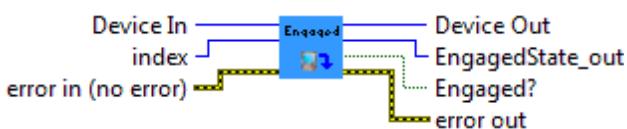
**Event?**

Returns TRUE if the event has executed, or FALSE otherwise.

5.14.6 ServoGetEngaged.vi

ServoGetEngaged.vi

Get the engaged state of a motor. This is whether the motor is powered or not

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The servo index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or

warning.



EngagedState_out

The engaged state. Possible values are 0 for False, 1 for True and others for undefined



Engaged?

The engaged state (Boolean type). Possible values are True for Engaged and False for Not Engaged.

5.14.7 ServoGetPos.vi

ServoGetPos.vi

Get the current position of a motor



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.

**index**

The servo index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**pos_out**

The position

5.14.8 ServoGetPosMax.vi

ServoGetPosMax.vi

Get the maximum position that a motor can go to

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The servo index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**posmax_out**

The maximum position

5.14.9 ServoGetPosMin.vi

ServoGetPosMin.vi

Get the minimum position that a motor can go to

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The servo index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



posmin_out

The minimum position

5.14.10 ServoGetServoType.vi

ServoGetServoType.vi

Get the servo type of a motor



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index****Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

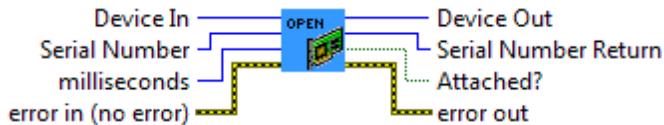
**GetServoType**

Returns the servo type. This is an enum. Please refer to [Phidgets Constants -> ServoType](#)

5.14.11 ServoOpen.vi

ServoOpen.vi

Open a PhidgetServo.



Serial Number

Serial Number. Specify -1 to open any.



milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)



error in (no error)

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device In

Device # Identification. This function will create a new device identification if it's 0



Serial Number Return

Serial Number of the opened phidget



Attached?

Returns TRUE is the device successfully attached, or FALSE otherwise.



error out

error out passes error or warning information

out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.



source

source string describes the origin of the error or warning.



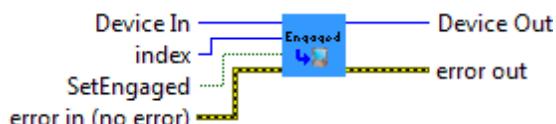
Device Out

Same as Device In

5.14.12 ServoSetEngaged.vi

ServoSetEngaged.vi

Set the engaged state of a motor. This is whether the motor is powered or not



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The servo index

**SetEngaged**

The engaged state of the servo.

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

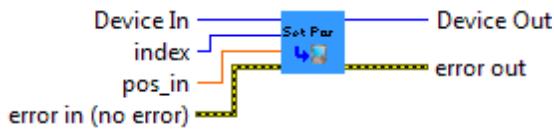
**source**

source describes the origin of the error or warning.

5.14.13 ServoSetPos.vi

ServoSetPos.vi

Set the position of a motor.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



pos_in

The servo position



index

The servo index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

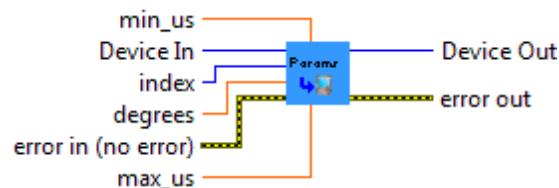
**source**

source describes the origin of the error or warning.

5.14.14 ServoSetServoParameters.vi

ServoSetServoParameters.vi

Set the servo parameters of a motor

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.



index

The servo index



min_us

The minimum supported PCM in microseconds



max_us

The maximum supported PCM in microseconds



degrees

The degrees of rotation defined by the given PCM range



Device Out



Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



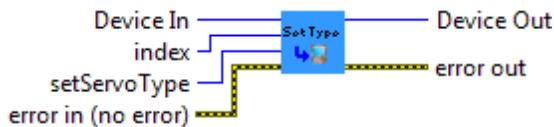
source

source describes the origin of the error or warning.

5.14.15 ServoSetServoType.vi

ServoSetServoType.vi

Set the servo type of a motor



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The servo index



setServoType

The servo type. This is an enum. Please refer to [Phidgets Constants -> ServoType](#)



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should

be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



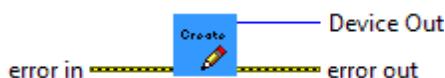
source describes the origin of the error or warning.

5.15 Spatial

5.15.1 SpatialCreate.vi

SpatialCreate.vi

Create a Phidget Spatial handle



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

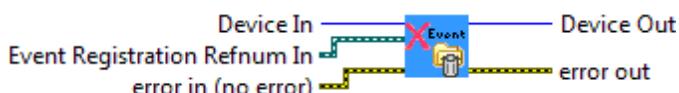
**Device Out**

Device # identification

5.15.2 SpatialEventClose.vi

SpatialEventClose.vi

Close the Phidget Spatial event handle

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or

FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



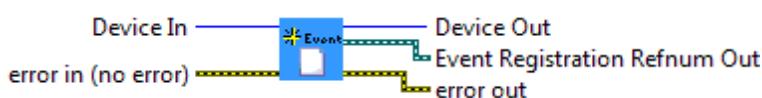
source

source string describes the origin of the error or warning.

5.15.3 SpatialEventCreate.vi

SpatialEventCreate.vi

Set up a data change event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



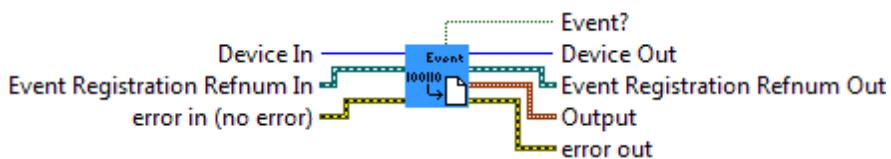
Event Registration Refnum Out

Event # Identification

5.15.4 SpatialEventExe.vi

SpatialEventExe.vi

This is called when data come. It is called at SpatialGetDataRate, up to 8ms. For the rate faster than 8ms, multiple sets of data are supplied in a single event.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device In

Device # Identification.



Event Registration Refnum In

Event # Identification



error out

error out passes error or warning information



out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.



source string describes the origin of the error or warning.



Device Out



Same as Device In



Returns TRUE if the event has executed, or FALSE otherwise.

Event Registration Refnum Out



Event # Identification



Output



The Output Data

acc0



Acceleration X.



acc1



Acceleration Y.



acc2



Acceleration Z



ang0



Angular rate X



ang1



Angular rate Y



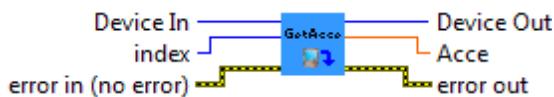
ang2

	Angular rate Z
	Magnetic field X
	Magnetic field Y
	Magnetic field Z
	sec
	Timestamp in s
	micsec
	Timestamp in ms

5.15.5 SpatialGetAcce.vi

SpatialGetAcce.vi

Get the current acceleration data of an axis



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkbox) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The acceleration index. (x, y, z)



Device Out



Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkbox) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



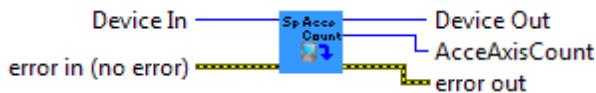
Acce

The acceleration in gs

5.15.6 SpatialGetAcceAxisCount.vi

SpatialGetAcceAxisCount.vi

Get the number of acceleration axes supplied by this board



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



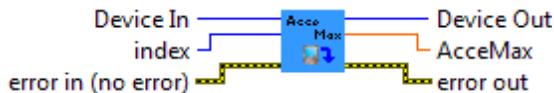
AcceAxisCount

The axis count

5.15.7 SpatialGetAcceMax.vi

SpatialGetAcceMax.vi

Get the maximum acceleration supported by an axis



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index



The acceleration index. (x, y, z)

Device Out



Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



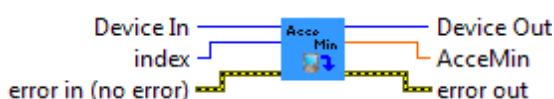
AcceMax

The maximum acceleration

5.15.8 SpatialGetAcceMin.vi

SpatialGetAcceMin.vi

Get the minimum acceleration supported by an axis



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The axis index (x, y, z)

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**AcceMin**

The minimum acceleration

5.15.9 SpatialGetAngRate.vi

SpatialGetAngRate.vi

Get the current angular rate of an axis

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The axis index (x, y, z)

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



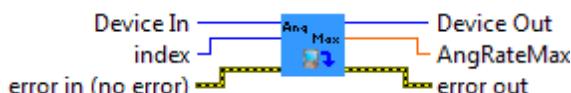
AngRate

The angular rate in degrees/second

5.15.10 SpatialGetAngRateMax.vi

SpatialGetAngRateMax.vi

Get the maximum angular rate supported by an axis



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The axis index (x, y, z)

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

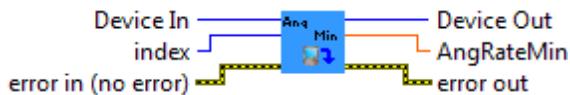
**AngRateMax**

The maximum angular rate

5.15.11 SpatialGetAngRateMin.vi

SpatialGetAngRateMin.vi

Get the minimum angular rate supported by an axis



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The axis index (x, y, z)



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other

VI.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



AngRateMin

The minimum angular rate

5.15.12 SpatialGetCompassAxisCount.vi

SpatialGetCompassAxisCount.vi

Get the number of compass axes supplied by this board



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



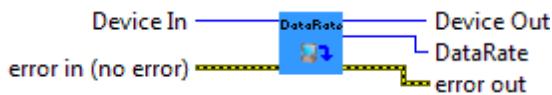
CompassAxisCount

The number of compass axes

5.15.13 SpatialGetDataRate.vi

SpatialGetDataRate.vi

Get the data rate



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code



code is the error or warning code.



source

source describes the origin of the error or warning.

**DataRate**

The data rate in milliseconds

5.15.14 SpatialGetDataRateMax.vi**SpatialGetDataRateMax.vi**

Get the maximum supported data rate

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this

information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



DataRateMax

The data rate in milliseconds

5.15.15 SpatialGetDataRateMin.vi

SpatialGetDataRateMin.vi

Get the minimum supported data rate



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or

that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**DataRateMin**

The data rate in milliseconds

5.15.16 SpatialGetGyroAxisCount.vi

SpatialGetGyroAxisCount.vi

Get the number of gyroscope axes supplied by this board



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



GyroAxisCount

The number of gyro axes.

5.15.17 SpatialGetMagField.vi

SpatialGetMagField.vi

Get the current magnetic field strength of an axis



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index



The axis index (x, y, z)

Device Out



Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



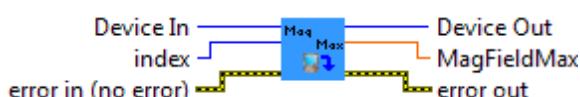
MagField

The magnetic field strength in Gauss

5.15.18 SpatialGetMagFieldMax.vi

SpatialGetMagFieldMax.vi

Get the maximum magnetic field strength supported by an axis.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The axis index (x, y, z)

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

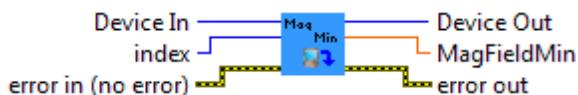
source describes the origin of the error or warning.

**MagFieldMax**

The maximum magnetic field strength in Gauss

5.15.19 SpatialGetMagFieldMin.vi**SpatialGetMagFieldMin.vi**

Get the minimum magnetic field strength supported by an axis

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The axis index (x, y, z)

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



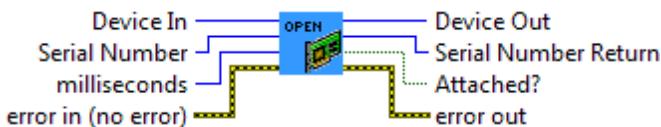
MagFieldMin

The minimum magnetic field strength in Gauss

5.15.20 SpatialOpen.vi

SpatialOpen.vi

Open a PhidgetSpatial



Serial Number

Serial Number. Specify -1 to open any.



milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)



error in (no error)

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**Device In**

Device # identification. This function will create a new device identification if it's 0 or invalid

**Serial Number Return**

Serial Number of the opened phidget

**Attached?**

Returns TRUE is the device successfully attached, or FALSE otherwise.

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

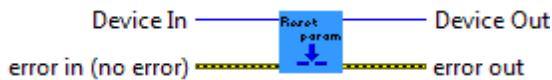
**Device Out**

Same as Device In

5.15.21 SpatialResetCompassCorrectionParameters.vi

SpatialResetCompassCorrectionParameters.vi

Reset the compass correction factors. Magnetic field data will be presented directly as reported by the sensor



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



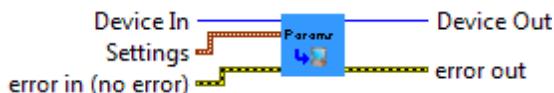
source

source describes the origin of the error or warning.

5.15.22 SpatialSetCompassCorrectionParameters.vi

SpatialSetCompassCorrectionParameters.vi

Set the compass correction factors. This can be used to correcting any sensor errors, including hard and soft iron offsets and sensor error factors.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Settings

The correction parameters.



magField



offset0



offset1



offset2



gain0



gain1



gain2



T0



T1



T2



T3



T4



T5



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.

5.15.23 SpatialSetDataRate.vi**SpatialSetDataRate.vi**

Set the data rate. Note that data at rates faster then 8ms will be delivered to events as an array of data

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**DateRate**

The data rate

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should

be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



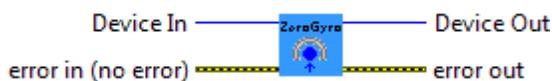
source

source describes the origin of the error or warning.

5.15.24 SpatialZeroGyro.vi

SpatialZeroGyro.vi

Zero the gyroscope. This takes about two seconds and the gyro axes will report 0 during the process. This should only be called when the board is not moving



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

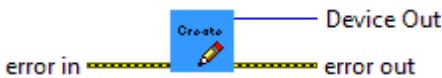
source describes the origin of the error or warning.

5.16 Stepper

5.16.1 StepperCreate.vi

StepperCreate.vi

Create a Phidget Stepper handle.

**error in**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source string describes the origin of the error or warning.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



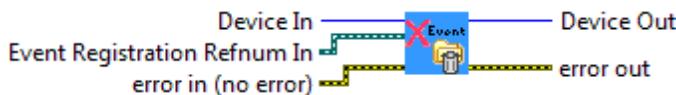
Device Out

Device # identification

5.16.2 StepperEventCloseCurrentVelocity.vi

StepperEventCloseCurrentVelocity.vi

Close the Phidget Stepper current change event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



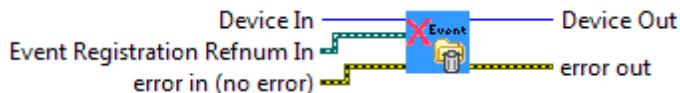
source

source string describes the origin of the error or warning.

5.16.3 StepperEventCloseInput.vi

StepperEventCloseInput.vi

Close the Phidget Stepper input change event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



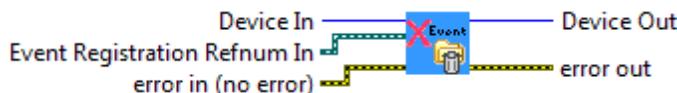
source

source string describes the origin of the error or warning.

5.16.4 StepperEventClosePosition.vi

StepperEventClosePosition.vi

Close the Phidget Stepper position change event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.

**Event Registration Refnum In****Event # Identification****Device Out**

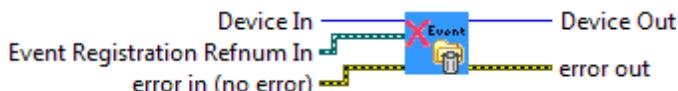
Same as Device In

**error out****error out** passes error or warning information out of a VI to be used by other VIs.**status****status** is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.**code****code** is the error or warning code.**source****source** string describes the origin of the error or warning.

5.16.5 StepperEventClosePosition71.vi

StepperEventClosePosition71.vi

Close the Phidget Stepper position change event handle for Labview version 7.1 only

**Device In****Device # Identification.****error in (no error)****error in** can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device Out



Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



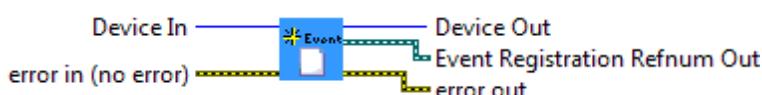
source

source string describes the origin of the error or warning.

5.16.6 StepperEventCreateCurrent.vi

StepperEventCreateCurrent.vi

Set up a current change event handle





Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



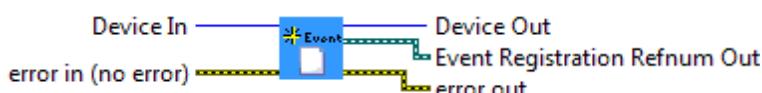
Event Registration Refnum Out

Event # Identification

5.16.7 StepperEventCreateInput.vi

StepperEventCreateInput.vi

Set up an input change event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



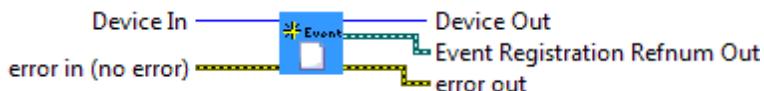
Event Registration Refnum Out

Event # Identification

5.16.8 StepperEventCreatePosition.vi

StepperEventCreatePosition.vi

Set up a position change event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.



source string describes the origin of the error or warning.



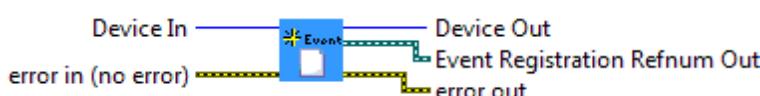
Event Registration Refnum Out

Event # Identification

5.16.9 StepperEventCreatePosition71.vi

StepperEventCreatePosition71.vi

Set up a position change event handle for Labview version 7.1 only



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this

information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out**

Same as Device In

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

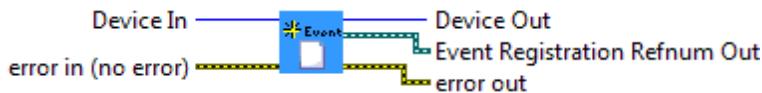
**Event Registration Refnum Out**

Event # Identification

5.16.10 StepperEventCreateVelocity.vi

StepperEventCreateVelocity.vi

Set up a velocity change event handle



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

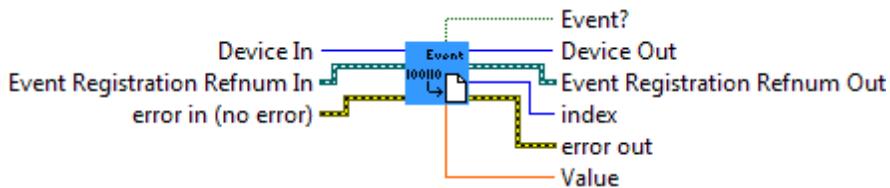
**Event Registration Refnum Out**

Event # Identification

5.16.11 StepperEventExeCurrentVelocity.vi

StepperEventExeCurrentVelocity.vi

This is called when the Phidget Stepper Current/Velocity event changes

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Event Registration Refnum In**

Event # Identification



Value

The return value of related event. (E.g. for velocity change event, this value is velocity.)



index

The motor index



Device Out



Same as Device In

error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Event Registration Refnum Out

Same as the Event Registration Refnum In



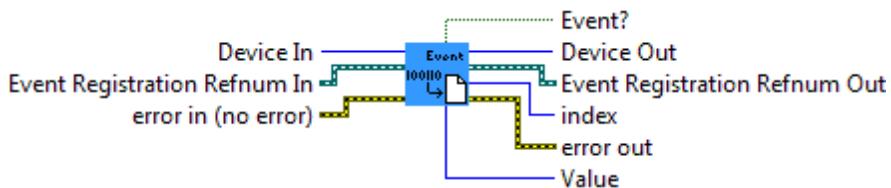
Event?

Returns TRUE if the event has executed, or FALSE otherwise.

5.16.12 StepperEventExeInput.vi

StepperEventExeInput.vi

This is called when the Phidget Stepper Input event changes.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Device In

Device # Identification.



index

The motor index



Value

The input



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Event Registration Refnum Out

Same as the Event Registration Refnum In



Device Out

Same as Device In



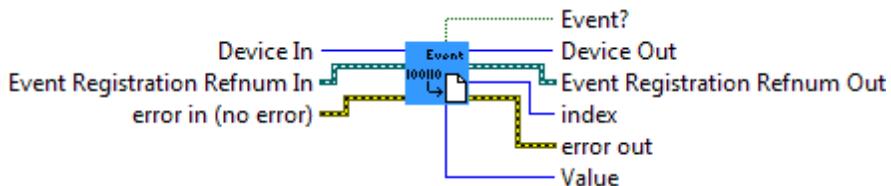
Event?

Returns TRUE if the event has executed, or FALSE otherwise.

5.16.13 StepperEventExePosition.vi

StepperEventExePosition.vi

This is called when the Phidget Stepper Position event changes



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Event Registration Refnum In**

Event # Identification

**index**

The motor index

**Device Out**

Same as Device In

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**Value**

The position

**Event?**

Returns TRUE if the event has executed, or

FALSE otherwise.



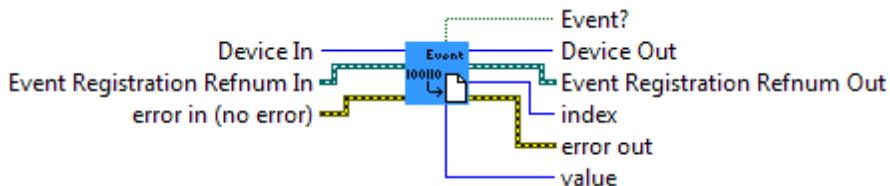
Event Registration Refnum Out

Same as the Event Registration Refnum In

5.16.14 StepperEventExePosition71.vi

StepperEventExePosition71.vi

This is called when the Phidget Stepper Position event changes. This function is for Labview version 7.1 only



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification

**index**

The motor index

**Device Out**

Same as Device In

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**Event?**

Returns TRUE if the event has executed, or FALSE otherwise.

**Event Registration Refnum Out**

Same as the Event Registration Refnum In

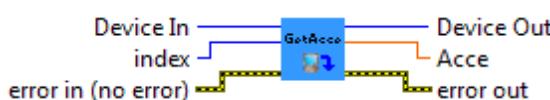
**value**

The position

5.16.15 StepperGetAcceleration.vi

StepperGetAcceleration.vi

Get the last set acceleration for a motor

**Device In**

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Acce**

The acceleration

5.16.16 StepperGetAccelerationMax.vi

StepperGetAccelerationMax.vi

Get the maximum acceleration supported by a motor

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The motor index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

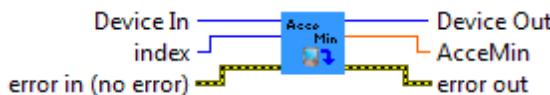
source describes the origin of the error or warning.

**AcceMax**

The maximum acceleration

5.16.17 StepperGetAccelerationMin.vi**StepperGetAccelerationMin.vi**

Get the minimum acceleration supported by a motor

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should

be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The motor index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

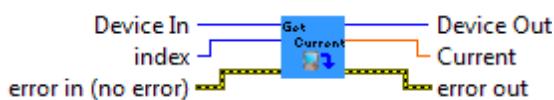
**AcceMin**

The minimum acceleration

5.16.18 StepperGetCurrent.vi

StepperGetCurrent.vi

Get the current current draw for a motor



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other

VI.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.



source

source describes the origin of the error or warning.



Current

The current

5.16.19 StepperGetCurrentLimit.vi

StepperGetCurrentLimit.vi

Get the current limit for a motor



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



Device Out



Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



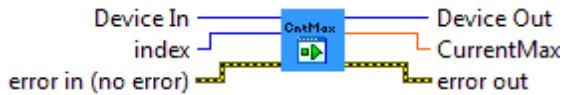
Current Limit

The current limit

5.16.20 StepperGetCurrentMax.vi

StepperGetCurrentMax.vi

Get the maximum current limit



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or

that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



CurrentMax

The maximum current limit

5.16.21 StepperGetCurrentMin.vi

StepperGetCurrentMin.vi

Get the minimum current limit



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or

warning.



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



CurrentMin

The minimum current limit.

5.16.22 StepperGetCurrentPosition.vi

StepperGetCurrentPosition.vi

Get the current position of a motor



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Position**

The position

5.16.23 StepperGetCurrentPosition71.vi

StepperGetCurrentPosition71.vi

Get the current position of a motor. This function is for Labview version 7.1 only

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The motor index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

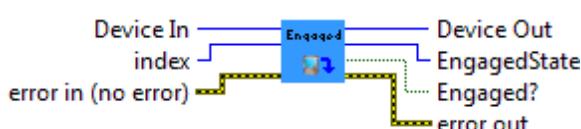
**Position**

The position

5.16.24 StepperGetEngaged.vi

StepperGetEngaged.vi

Get the engaged state of a motor. This is whether the motor is powered or not

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this

information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



EngagedState

The engaged state. Possible values are 0 for False, 1 for True and others for undefined
Engaged?



The engaged state (Boolean type). Possible values are True for Engaged and False for Not Engaged

5.16.25 StepperGetPositionMax.vi

StepperGetPositionMax.vi

Get the maximum position that a motor can go to



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index



The motor index

Device Out



Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



PositionMax

The maximum position

5.16.26 StepperGetPositionMax71.vi

StepperGetPositionMax71.vi

Get the maximum position that a motor can go to. This function is for Labview version 7.1 only



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The motor index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**PositionMax**

Maximum position

5.16.27 StepperGetPositionMin.vi

StepperGetPositionMin.vi

Get the minimum position that a motor can go to.

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The motor index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



PositionMin

The minimum position

5.16.28 StepperGetPositionMin71.vi

StepperGetPositionMin71.vi

Get the minimum position that a motor can go to. This function is for Labview version 7.1 only



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.



source describes the origin of the error or warning.

**index**

The motor index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**PositionMin**

The minimum position

5.16.29 StepperGetTargetPosition.vi

StepperGetTargetPosition.vi

Get the last set target position of a motor



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other

VI.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.



source

source describes the origin of the error or warning.



Position

The position

5.16.30 StepperGetTargetPosition71.vi

StepperGetTargetPosition71.vi

Get the last set target position of a motor. This function is for Labview version 7.1 only



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



Device Out



Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



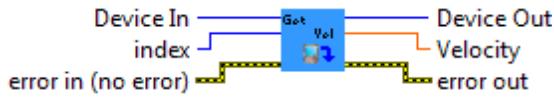
Position

The position

5.16.31 StepperGetVelocity.vi

StepperGetVelocity.vi

Get the current velocity of a motor



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or

that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



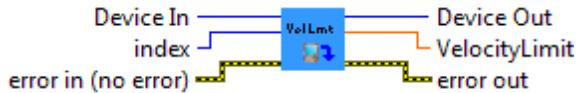
Velocity

The velocity

5.16.32 StepperGetVelocityLimit.vi

StepperGetVelocityLimit.vi

Get the last set velocity limit for a motor



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or

warning.



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



VelocityLimit

The velocity limit

5.16.33 StepperGetVelocityMax.vi

StepperGetVelocityMax.vi

Get the maximum velocity that can be set for a motor



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**VelocityMax**

The maximum velocity

5.16.34 StepperGetVelocityMin.vi

StepperGetVelocityMin.vi

Get the minimum velocity that can be set for a motor

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The motor index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

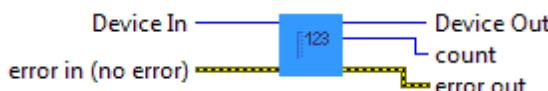
source describes the origin of the error or warning.

**VelocityMin**

The minimum velocity

5.16.35 StepperInputCount.vi**StepperInputCount.vi**

Get the number of digital inputs supported by this board

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should

be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



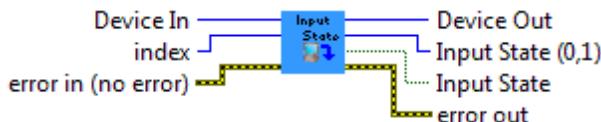
count

The digital input count

5.16.36 StepperInputState.vi

StepperInputState.vi

Get the state of a digital input



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should

be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Input State (0,1)

The input state. Possible values are 0 for False, 1 for True and others for undefined



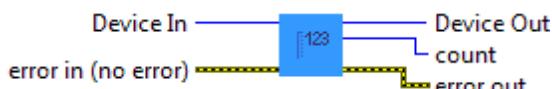
Input State

The input state (Boolean type).

5.16.37 StepperMotorCount.vi

StepperMotorCount.vi

Get the number of motors supported by this controller



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.

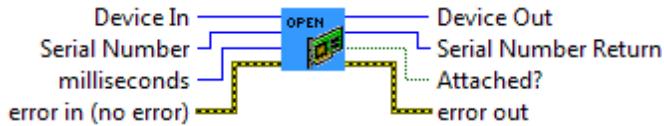


count

The motor count

5.16.38 StepperOpen.vi

StepperOpen.vi



Serial Number

Serial Number. Specify -1 to open any.



milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)



error in (no error)

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device In

Device # identification. This function will create a new device identification if it's 0 or invalid



Serial Number Return

Serial Number of the opened phidget



Attached?

Returns TRUE if the device successfully attached, or FALSE otherwise.



error out

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

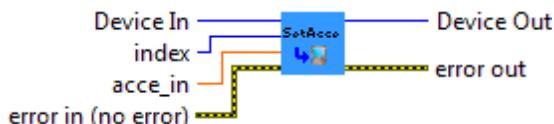
**Device Out**

Same as Device In

5.16.39 StepperSetAcceleration.vi

StepperSetAcceleration.vi

Set the acceleration for a motor.

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.



source

source describes the origin of the error or warning.



acce_in

The acceleration



index

The motor index



Device Out



Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



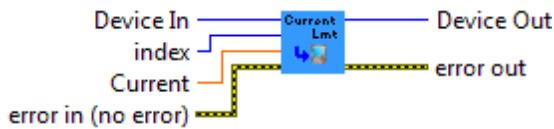
source

source describes the origin of the error or warning.

5.16.40 StepperSetCurrentLimit.vi

StepperSetCurrentLimit.vi

Set the current limit for a motor



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source describes the origin of the error or warning.



Current

The current limit



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

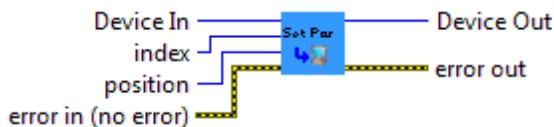
**source**

source describes the origin of the error or warning.

5.16.41 StepperSetCurrentPosition.vi

StepperSetCurrentPosition.vi

Set the current position of a motor. It will not move the motor, just update the position value

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or

warning.



position

The position



index

The motor index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



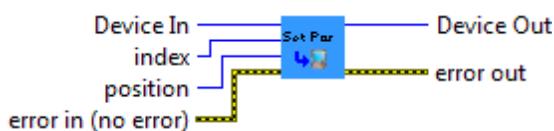
source

source describes the origin of the error or warning.

5.16.42 StepperSetCursorPosition71.vi

StepperSetCursorPosition71.vi

Set the current position of a motor. It will not move the motor, just update the position value. This function is for Labview version 7.1 only.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



position

The position



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

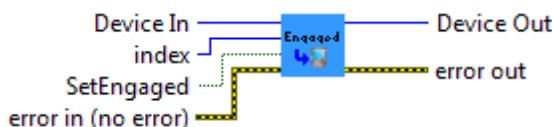
**source**

source describes the origin of the error or warning.

5.16.43 StepperSetEngaged.vi

StepperSetEngaged.vi

Set the engaged state of a motor. This is whether the motor is powered or not

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The motor index

**SetEngaged**

Set the engage state

**Device Out**

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

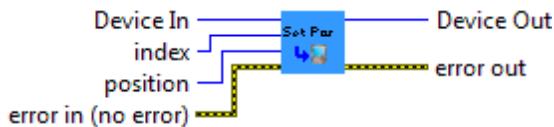
**source**

source describes the origin of the error or warning.

5.16.44 StepperSetTargetPosition.vi

StepperSetTargetPosition.vi

Set the target position of a motor

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should

be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**position**

The position

**index**

The motor index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

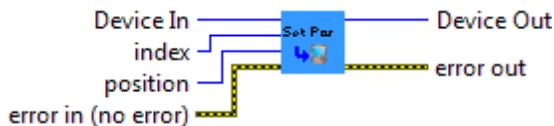
**source**

source describes the origin of the error or warning.

5.16.45 StepperSetTargetPosition71.vi

StepperSetTargetPosition71.vi

Set the target position of a motor. This function is for Labview version 7.1 only.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The motor index



position

The position



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



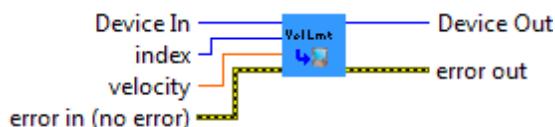
source

source describes the origin of the error or warning.

5.16.46 StepperSetVelocityLimit.vi

StepperSetVelocityLimit.vi

Set the velocity limit for a motor



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**velocity**

The velocity limit



The motor index



Same as Device In



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

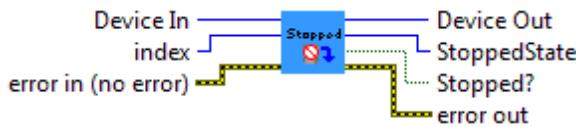
**source**

source describes the origin of the error or warning.

5.16.47 StepperStoppedState.vi

StepperStoppedState.vi

Get the stopped state of a motor. This is true when the motor is not moving and there are no outstanding commands

**I32****Device In**

Device # Identification.

RTD**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

TFI**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

I32**code**

code is the error or warning code.

abc**source**

source describes the origin of the error or warning.

I32**index**

The motor index

RTD**Device Out**

Same as Device In

RTD**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

TF**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or



that no error occurred.



code is the error or warning code.



source

source describes the origin of the error or warning.



StoppedState

The stopped state. Possible values are 0 for False, 1 for True and others for undefined.



Stopped?

The stopped state (Boolean type). Possible values are True for Stopped and False for Not Stopped

5.17 TemperatureSensor

5.17.1 TempCreate.vi

TempCreate.vi

Create a Phidget Temperature Sensor handle



error in

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code



code is the error or warning code.

source

source string describes the origin of the error or warning.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.



source string describes the origin of the error or warning.



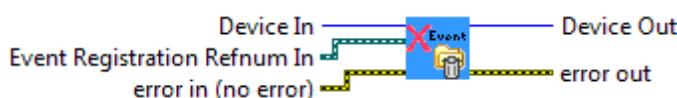
Device Out

Device # identification

5.17.2 TempEventClose.vi

TempEventClose.vi

Close the Phidget Temperature Sensor event handle.



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Event Registration Refnum In**

Event # Identification

**Device Out**

Same as Device In

**error out**

error out passes error or warning information out of a VI to be used by other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

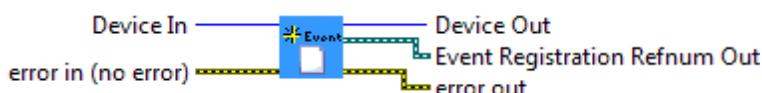
**source**

source string describes the origin of the error or warning.

5.17.3 TempEventCreate.vi

TempEventCreate.vi

Set up a temperature change event handle





Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



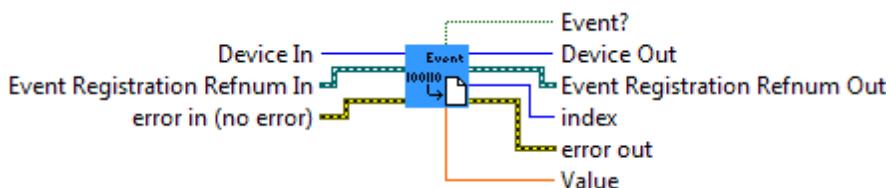
Event Registration Refnum Out

Event # identification

5.17.4 TempEventExe.vi

TempEventExe.vi

This is called when the temperature changes by more then the change trigger



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Event Registration Refnum In

Event # Identification



Value

The temperature

**index**

The input index

**Device Out**

Same as Device In

**error out**

error out passes error or warning information out of a VI to be used by other VIs.



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source string describes the origin of the error or warning.

**Event Registration Refnum Out**

Same as the Event Registration Refnum In

**Event?**

Returns TRUE if the event has executed, or FALSE otherwise.

5.17.5 TempGetAmbient.vi

TempGetAmbient.vi

Get the ambient (board) temperature

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Ambient**

The ambient (board) temperature

5.17.6 TempGetAmbientMax.vi

TempGetAmbientMax.vi

Get the maximum temperature that the ambient onboard temperature sensor can measure



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Ambient Max

The maximum temperature

5.17.7 TempGetAmbientMin.vi

TempGetAmbientMin.vi

Get the minimum temperature that the ambient onboard temperature sensor can measure



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.



source describes the origin of the error or warning.



Ambient Min

The minimum temperature

5.17.8 TempGetPotential.vi

TempGetPotential.vi

Get the currently sensed potential for a thermocouple input



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The input index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

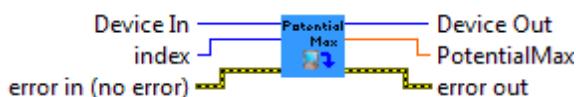
**potential**

The potential

5.17.9 TempGetPotentialMax.vi

TempGetPotentialMax.vi

Get the maximum potential that a thermocouple input can measure

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The input index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



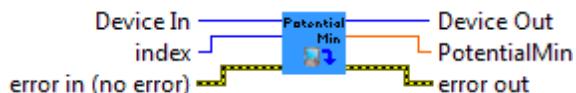
PotentialMax

The maximum potential

5.17.10 TempGetPotentialMin.vi

TempGetPotentialMin.vi

Get the minimum potential that a thermocouple input can measure



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The input index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

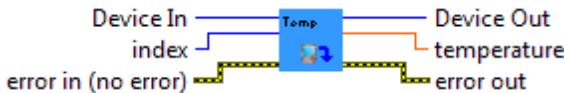
**PotentialMin**

The minimum potential

5.17.11 TempGetTemperature.vi

TempGetTemperature.vi

Get the temperature measured by a thermocouple input



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.



source

source describes the origin of the error or warning.



index

The input index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other

VI.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



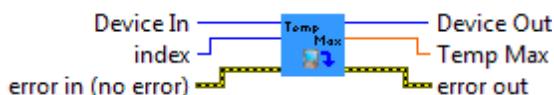
temperature

The temperature

5.17.12 TempGetTemperatureMax.vi

TempGetTemperatureMax.vi

Get the maximum temperature that can be measured by a thermocouple input. This depends on the type of thermocouple attached, as well as the ambient temperature



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**index**

The input index

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

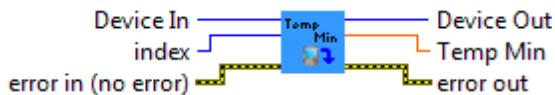
**Temp Max**

The maximum temperature

5.17.13 TempGetTemperatureMin.vi

TempGetTemperatureMin.vi

Get the minimum temperature that can be measured by a thermocouple input. This depends on the type of thermocouple attached, as well as the ambient temperature



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The input index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or

that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Temp Min

The minimum temperature

5.17.14 TempGetThermocoupleType.vi

TempGetThermocoupleType.vi

Get the type of thermocouple set to be at a thermocouple input. By default this is K-Type (1).



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or

warning.



index

The input index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Thermocouple Type

The thermocouple type. This is an enum.

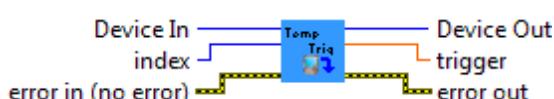
Please refer to [Phidgets Constants ->](#)

[ThermocoupleType](#)

5.17.15 TempGetTrigger.vi

TempGetTrigger.vi

Get the change trigger for a thermocouple input





Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The input index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

**source**

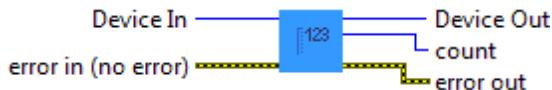
source describes the origin of the error or warning.

**trigger**

The change trigger

5.17.16 TempInputCount.vi**TempInputCount.vi**

Get the number of thermocouple inputs supported by this board

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

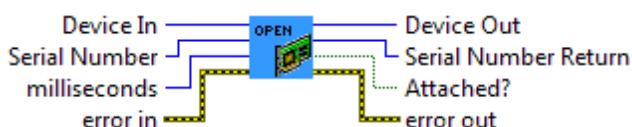
**count**

The thermocouple input count

5.17.17 TempOpen.vi

TempOpen.vi

Open a Phidget Temperature Sensor

**Serial Number**

Serial Number. Specify -1 to open any.

**milliseconds**

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)

**error in**

error out passes error or warning information

out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.



source

source string describes the origin of the error or warning.



Device In

Device # Identification.



Serial Number Return

Serial Number of the opened phidget



Attached?

Returns TRUE is the device successfully attached, or FALSE otherwise.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



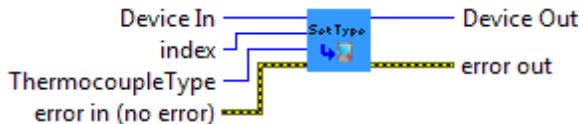
Device Out

Same as Device In

5.17.18 TempSetThermocoupleType.vi

TempSetThermocoupleType.vi

Set the type of thermocouple plugged into a thermocouple input. By default this is K-Type



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The input index



ThermocoupleType

The thermocouple type. This is an enum. Please refer to [Phidgets Constants -> ThermocoupleType](#)



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



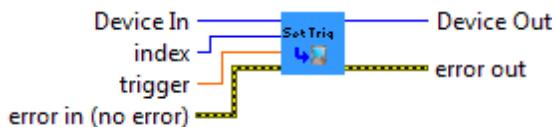
source

source describes the origin of the error or warning.

5.17.19 TempSetTrigger.vi

TempSetTrigger.vi

Set the change trigger for a thermocouple input



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or

that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



trigger

The change trigger



index

The input index



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.

5.18 TextLCD

5.18.1 TextCreate.vi

TextCreate.vi

Create a Phidget TextLCD handle



error in

error out passes error or warning information out of a VI to be used by other VIs.

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source string describes the origin of the error or warning.



error out

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



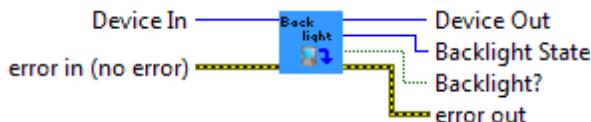
Device Out

Device # identification

5.18.2 TextGetBacklightState.vi

TextGetBacklightState.vi

Get the state of the backlight



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Backlight State**

The backlight state. Possible values are 0 for False, 1 for True and others for undefined

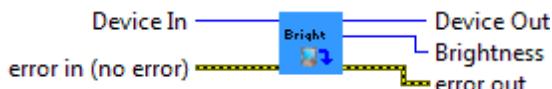
**Backlight?**

The backlight state (Boolean type).

5.18.3 TextGetBrightness.vi

TextGetBrightness.vi

Get the brightness of the backlight. Not supported on all TextLCDs

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or

that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



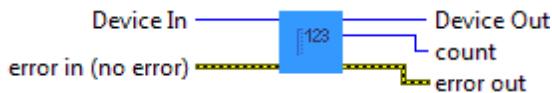
Brightness

The backlight brightness (0-255)

5.18.4 TextGetColumnCount.vi

TextGetColumnCount.vi

Get the number of columns per supported by this display



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkboxmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkboxmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



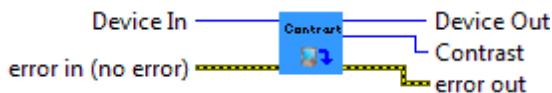
count

The column count

5.18.5 TextGetContrast.vi

TextGetContrast.vi

Get the last set contrast value



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



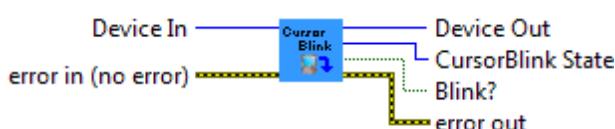
Contrast

The contrast (0-255)

5.18.6 TextGetCursorBlinkState.vi

TextGetCursorBlinkState.vi

Get the cursor blink state



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this

information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



CursorBlink State

The cursor blink state. Possible values are 0 for False, 1 for True and others for undefined



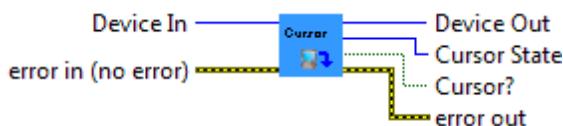
Blink?

The cursor blink state (Boolean type)

5.18.7 TextGetCursorState.vi

TextGetCursorState.vi

Get the cursor visible state



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this

information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Cursor State

The state of the cursor. Possible values are 0 for False, 1 for True and others for undefined



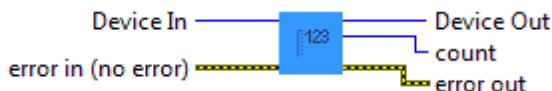
Cursor?

The state of the cursor (Boolean type)

5.18.8 TextGetRowCount.vi

TextGetRowCount.vi

Get the number of rows supported by this display



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**count**

The row count

5.18.9 TextGetScreenCount.vi

TextGetScreenCount.vi

Gets the number of screens supported by the TextLCD



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



ScreenCount

The number of screens

5.18.10 TextGetScreenIndex.vi

TextGetScreenIndex.vi

Gets the screen index



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.

**Device Out**

Same as Device In

**error out**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

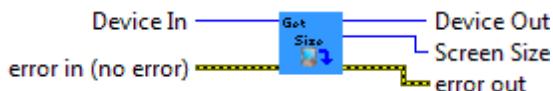
**ScreenIndex**

The screen index

5.18.11 TextGetScreenSize.vi

TextGetScreenSize.vi

Gets the screen size for the active TextLCD display.

**Device In**

Device # Identification.

**error in (no error)**

error in can accept error information wired from VIs previously called. Use this

information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



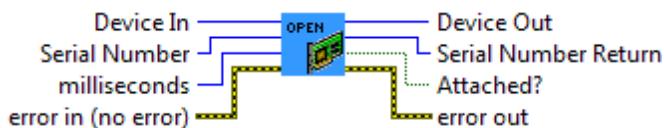
Screen Size

The screen size

5.18.12 TextOpen.vi

TextOpen.vi

Open a Phidget TextLCD



Serial Number

Serial Number. Specify -1 to open any.



milliseconds

Time to wait for the attachment. Specify 0 to wait forever. (Default is 5000)



error in (no error)

error out passes error or warning information out of a VI to be used by other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



Device In

Device # identification. This function will create a new device identification if it's 0 or invalid



Serial Number Return

Serial Number of the opened phidget



Attached?

Returns TRUE if the device successfully



attached, or FALSE otherwise.



error out passes error or warning information out of a VI to be used by other VIs.



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source string describes the origin of the error or warning.



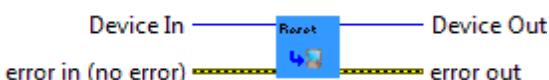
Device Out

Same as Device In

5.18.13 TextReset.vi

TextReset.vi

Re-initializes the LCD Display, clearing it, etc.



Device In

Device # Identification.



error in (no error)



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

status



status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

code

code is the error or warning code.



source describes the origin of the error or warning.



Device Out



Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



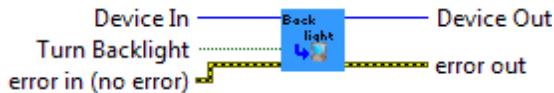
source

source describes the origin of the error or warning.

5.18.14 TextSetBacklightState.vi

TextSetBacklightState.vi

Set the state of the backlight





Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Turn Backlight

Set the backlight state



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.

5.18.15 TextSetBrightness.vi

TextSetBrightness.vi

Set the brightness of the backlight. Not supported on all TextLCDs



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Brightness

The backlight brightness (0-255).



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



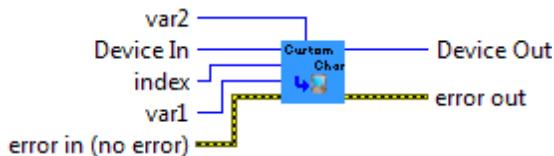
source

source describes the origin of the error or warning.

5.18.16 TextSetCharacter.vi

TextSetCharacter.vi

Set a custom character. See the product manual for more information



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or

that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



index

The custom character index (8-15)



var1

The first part of the custom character



var2

The second part of the custom character



Device Out



Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.

5.18.17 TextSetContrast.vi

TextSetContrast.vi

Set the last set contrast value



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Contrast

The contrast (0-255).



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

VI.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.



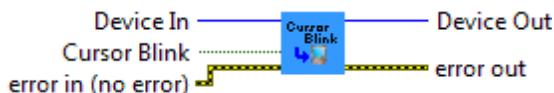
source

source describes the origin of the error or warning.

5.18.18 TextSetCursorBlinkState.vi

TextSetCursorBlinkState.vi

Set the cursor blink state



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



Cursor Blink

Set the cursor blink state



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



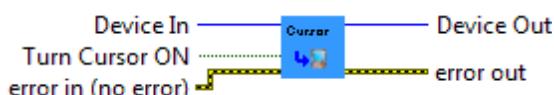
source

source describes the origin of the error or warning.

5.18.19 TextSetCursorPosition.vi

TextSetCursorPosition.vi

Set the cursor visible state



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**Turn Cursor ON**

Set the state of the cursor

**Device Out**

Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

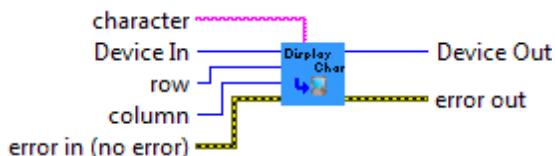
**source**

source describes the origin of the error or warning.

5.18.20 TextSetDisplayChar.vi

TextSetDisplayChar.vi

Set a single character on the display



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



row

The row index



column

The column index



character

The character to display



Device Out



Same as Device In

error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.

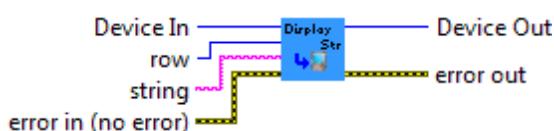


source describes the origin of the error or warning.

5.18.21 TextSetDisplayString.vi

TextSetDisplayString.vi

Set a row on the display



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

**row**

The row index

**string**

The string to display. Make sure this is not longer than TextGetColumnCount

**Device Out**

Same as Device In



error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

**code**

code is the error or warning code.

**source**

source describes the origin of the error or warning.

5.18.22 TextSetScreenIndex.vi

TextSetScreenIndex.vi

Choose the screen to modify



Device In

Device # Identification.

error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkboxmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



ScreenIndex

The index of the screen being selected



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other

VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code is the error or warning code.



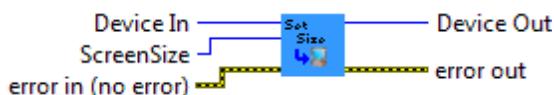
source

source describes the origin of the error or warning.

5.18.23 TextSetScreenSize.vi

TextSetScreenSize.vi

Set the size of the screen



Device In

Device # Identification.



error in (no error)

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.



ScreenSize

The screen size



Device Out

Same as Device In



error out

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



code

code is the error or warning code.



source

source describes the origin of the error or warning.

6 Phidgets Constants

This section describes each of the Phidgets constants used by different Phidgets.

6.1 CodeInfo

The PhidgetIR CodeInfo structure contains all information needed to transmit a code, apart from the actual code data. Some values can be set to null to select defaults. See the product manual for more information.

Data Type	Item	Comments
[T32]	bitCount	Number of bits in the code.
[T32]	encoding	Encoding used to encode the data. This is an enum. Please refer to Phidgets Constant -> IREncoding
[T32]	length	Constant or Variable length encoding. This is an enum. Please refer to Phidgets Constant -> IRLength
[T32]	gap	Gap time in us.
[T32]	trail	Trail time in us - can be 0 for none.
[T32]	header [2]	Header pulse and space - can be 0 for none.
[T32]	one [2]	Pulse and Space times to represent a '1' bit, in us.
[T32]	zero [2]	Pulse and Space times to represent a '0' bit, in us.
[T32]	repeat [26]	A series of pulse and space times to represent the repeat code. Start and end with pulses and null terminate. Set to 0 for none.
[T32]	min_repeat	Minimum number of times to repeat a code on transmit.
[U8]	toggle_mas_k [16]	Bit toggles, which are applied to the code after each transmit.
[T32]	carrierFrequency	Carrier frequency in Hz - defaults to 38kHz.
[T32]	dutyCycle	Duty Cycle in percent (10-50). Defaults to 33.

6.2 Frequency Filter Mode

An enum value with the following definition:

Value	Comments
ZERO CROSSING = 1	Phidget responds to Zero Crossing
LOGIC LEVEL = 2	Phidget responds to logic levels

6.3 IREncoding

The PhidgetIR supports these data encodings:

Value	Comments
PHIDGET_IR_ENCODING_UNKNOWN = 1,	Unknown - the default value
PHIDGET_IR_ENCODING_SPACE = 2,	Space encoding, or Pulse Distance Modulation
PHIDGET_IR_ENCODING_PULSE = 3,	Pulse encoding, or Pulse Width Modulation
PHIDGET_IR_ENCODING_BIPHASE = 4,	Bi-Phase, or Manchester encoding
PHIDGET_IR_ENCODING_RC5 = 5,	RC5 - a type of Bi-Phase encoding
PHIDGET_IR_ENCODING_RC6 = 6,	RC6 - a type of Bi-Phase encoding
Others	Undefined

6.4 IRLength

The PhidgetIR supports these encoding lengths:

Value	Comments
PHIDGET_IR_LENGTH_UNKNOWN = 1,	Unknown - the default value
PHIDGET_IR_LENGTH_CONSTANT = 2,	Constant - the bitstream + gap length is constant
PHIDGET_IR_LENGTH_VARIABLE = 3,	Variable - the bitstream has a variable length with a constant gap
Others	Undefined

6.5 ServoType

An enum value with the following definition:

Value	Comments
PHIDGET_SERVO_DEFAULT = 1,	Default - This is what the servo API been historically used, originally based on the Futaba FP-S148
PHIDGET_SERVO_RAW_us_MODE = 2,	Raw us mode - all position, velocity, acceleration functions are specified in microseconds rather than degrees
PHIDGET_SERVO_HITEC_HS322HD = 3,	HiTec HS-322HD Standard Servo
PHIDGET_SERVO_HITEC_HS5245MG = 4,	HiTec HS-5245MG Digital Mini Servo
PHIDGET_SERVO_HITEC_805BB = 5,	HiTec HS-805BB Mega Quarter Scale Servo
PHIDGET_SERVO_HITEC_HS422 = 6,	HiTec HS-422 Standard Servo

PHIDGET_SERVO_TOWERPRO_MG90 =	Tower Pro MG90 Micro Servo
7,	
PHIDGET_SERVO_HITEC_HSR1425CR = 8,	HiTec HSR-1425CR Continuous Rotation Servo
PHIDGET_SERVO_HITEC_HS785HB = 9,	HiTec HS-785HB Sail Winch Servo
PHIDGET_SERVO_HITEC_HS485HB = 10,	HiTec HS-485HB Deluxe Servo
PHIDGET_SERVO_HITEC_HS645MG = 11,	HiTec HS-645MG Ultra Torque Servo
PHIDGET_SERVO_HITEC_815BB = 12,	HiTec HS-815BB Mega Sail Servo
PHIDGET_SERVO_FIRGELLI_L12_30_50_06_R = 13,	Firgelli L12 Linear Actuator 30mm 50:1
PHIDGET_SERVO_FIRGELLI_L12_50_10_06_R = 14,	Firgelli L12 Linear Actuator 50mm 100:1
PHIDGET_SERVO_FIRGELLI_L12_50_21_06_R = 15,	Firgelli L12 Linear Actuator 50mm 210:1
PHIDGET_SERVO_FIRGELLI_L12_100_5_06_R = 16,	Firgelli L12 Linear Actuator 100mm 50:1
PHIDGET_SERVO_FIRGELLI_L12_100_1_06_R = 17,	Firgelli L12 Linear Actuator 100mm 100:1
PHIDGET_SERVO_USER_DEFINED = others	Undefined

6.6 ThermocoupleType

An enum value with the following definition:

Value	Comments
PHIDGET_TEMPERATURE_SENSOR_K_TYPE = 1,	K-Type thermocouple
PHIDGET_TEMPERATURE_SENSOR_J_TYPE = 2,	J-Type thermocouple
PHIDGET_TEMPERATURE_SENSOR_E_TYPE = 3,	E-Type thermocouple
PHIDGET_TEMPERATURE_SENSOR_T	T-Type thermocouple

TYPE = 4, PHIDGET_SERVO_USER_DEFINED = others	Undefined
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