# **CONEX-CC**

# Single-Axis DC Motion with Controller/Driver





# **LabVIEW Drivers**

V2.0.x

For Motion, Think Newport<sup>™</sup>

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CONEX-CC LabVIEW Drivers

# **Preface**

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CONEX-CC LabVIEW Drivers

# CONEX-CC LabVIEW Drivers

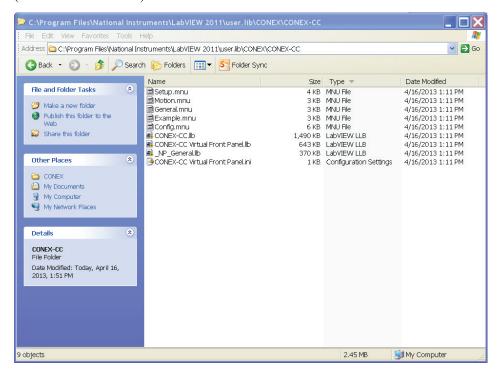
# 1.0 CONEX-CC LabVIEW Drivers

The CONEX-CC LabVIEW drivers have been developed under LABVIEW 2010

#### **NOTE**

You must use at least the 2010 of LabVIEW.

Copy the directory CONEX-CC Controller\_Drivers under the directory **user.lib** (\CONEX\CONEX-CC) of LabVIEW 20xx.



This directory contains documented VIs, menu to access the different VIs and controls defined to use the CONEX-CC, and the different menus where the VIs will be in LabVIEW:

**Config:** VIs to change configuration parameters (those used for setup after reset or end of configuration mode).

Conex-ALL: VIs to change configuration that all CONEX devices have and

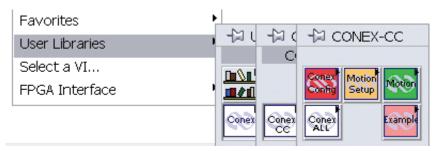
general communication Vis.

Mot. Setup: VIs to change working parameters (those lost when switching

off the controller).

**Motion:** VIs to move or stop the positioner. CONEX-CC Virtual Front panel VIs. **Example:** 

You select both CONEX menu and CONEX-CC Controller-Drivers sub-menu from User Libraries:



When you activate the Help window, you will see the description of each of the VIs. Click on a menu then select a VI. Place it and connect it.

You must use the connection VIs to setup connection. The Connect CONEX-CC device.vi will find the CONEX on the USB ports and setup connection for you, so that you can just connect it to the first subvi. These VIs are in the CONEX-ALL (General) menu.

#### Communication settings:

COM port – (Use the samples to find it or look under Device Manager)

Baud Rate - 921600 (USB serial speed)

In each VI, there is a Communication Cluster that contains the following elements:



VISA resource name in: VISA resource name is passed to low level VI's



Device name in: Readable description of device



Controller address in: Channel number

#### **Note on Controller Address:**

(Important for other devices with multiple RS485 connections, used to match command syntax of these similar RS485 instruments, however, for USB connection only one channel is addressed per USB cable, so all addresses can be set to 1, regardless of number of connected devices.)



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

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.



**status:** The **code** input identifies the error or warning.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.



**code:** The code input identifies the error or warning.

The pop-up option Explain Error (or Explain Warning) gives more information about the error displayed.



**source:** The **source** string describes the origin of the error or warning.

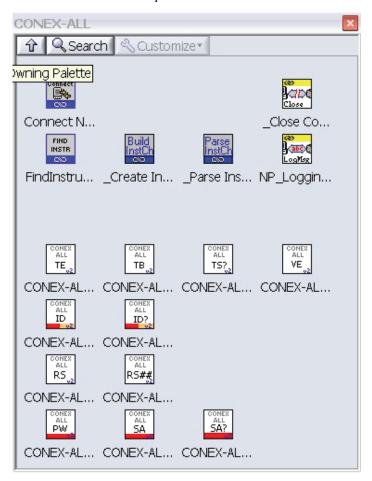
The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

# 2.0 VI's Libraries

#### 2.1 CONEX-ALL General Menu – Communication VI's

The Communication VISs at the top are low-level sub-VIs that talk to the device for you. The lower VIs with white background are configuration Vis common to all the CONEX family of devices.

The "Connect Newport Instrument.vi" will setup a connection and build a Connection Cluster that is all you need to pass to the other CONEX-CC specific function sub-VIs.

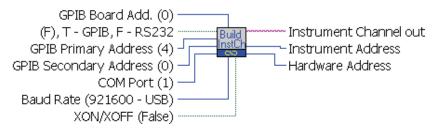


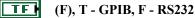
#### 2.1.1 \_Create Instrument Channel.vi

Builds the instrument channel handle (string) for an instrument connected over GPIB or RS-232. The default output String for a USB is RS-232 at a Baud Rate of 921600.

This string should be passed in and out of the library VIs to control the specified insrument. Different handles should be used for controlling multiple instruments.

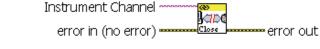
This will also initialize the RS-232 port to the speed specified; which must be done manually if not using this VI.





Hardware Address

#### 2.1.2 Close Communications.vi

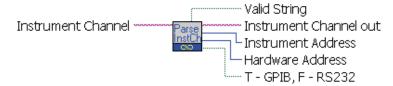


error in (no error)

Instrument Channel

Instrument Channel

#### 2.1.3 Parse Instrument Channel.vi



**1 Instrument Channel in** 

Instrument Channel out

Instrument Address

Hardware Address

**T - GPIB, F - RS232** 

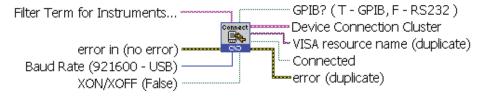
Valid String

### 2.1.4 Connect Newport Instrument.vi

Connect Newport Device

Get list of instrument, filter (if set) and allow for selection of device to talk to.

This is generic selection of the instrument to connected to, so look in system settings or on device to verify it is the correct port.



Instrument Filter Term for Instruments ("" - none)

String used to verify expected device is found.

error in (no error)

**1321** Baud Rate (921600 - USB)

XON/XOFF (False)

Connected Connected = true when connection is successful

VISA resource name (duplicate)

error (duplicate)

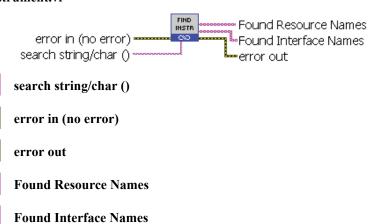
**FIF** GPIB? (T - GPIB, F - RS232)

#### 2.1.5 FindInstrument.vi

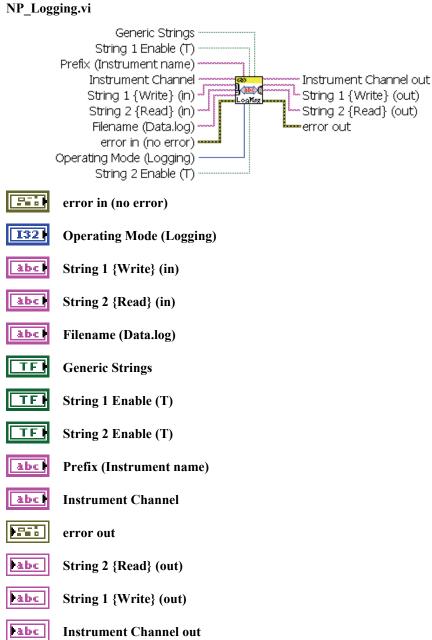
abc

abc

abc



#### 2.1.6



#### 2.2 CONEX-ALL Enter-Leave CONFIGURATION State v2.vi

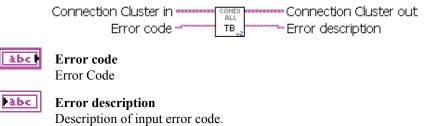


# TF

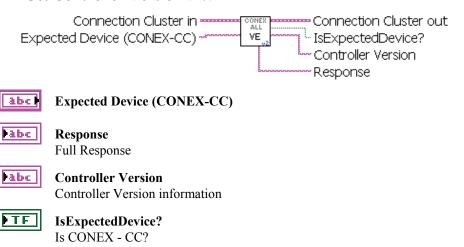
#### Go to CONFIGURATION State

Configuration State? T - In Configuration State

# 2.3 CONEX-ALL Get Command Error String v2.vi



#### 2.4 CONEX-ALL Get Controller Version v2.vi



# 2.5 CONEX-ALL Get Controller's address v2.vi



#### 2.6 CONEX-ALL Get Identifier v2.vi

Connection Cluster in Connection Cluster out

Identifier

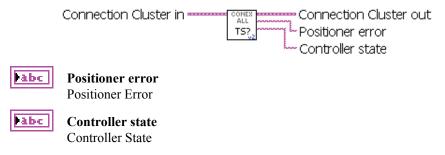
Identification of attached hardware.

#### 2.7 CONEX-ALL Get Last Command Error v2.vi

abc



#### 2.8 CONEX-ALL Get Positioner Error And Controller State v2.vi



#### 2.9 CONEX-ALL Reset Controller v2.vi



#### 2.10 CONEX-ALL Reset Controller's Address To 1 v2.vi



#### 2.11 CONEX-ALL Set Controller's address v2.vi

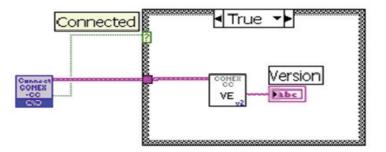


# 2.12 CONEX-ALL Set Identifier v2.vi



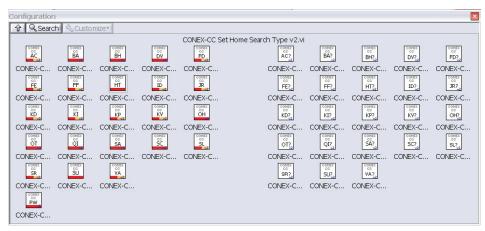
# 2.13 Examples

CONEX-Sample.vi shows how easy it is to find, connect and get version:



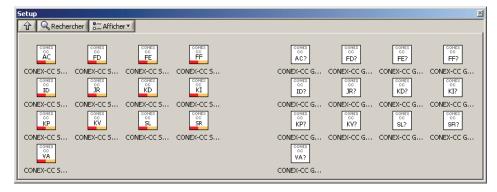
# 2.14 CONEX Configuration





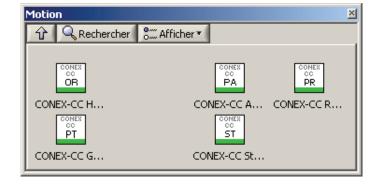
# 2.15 Motion Setup



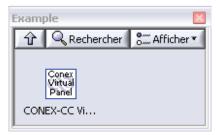


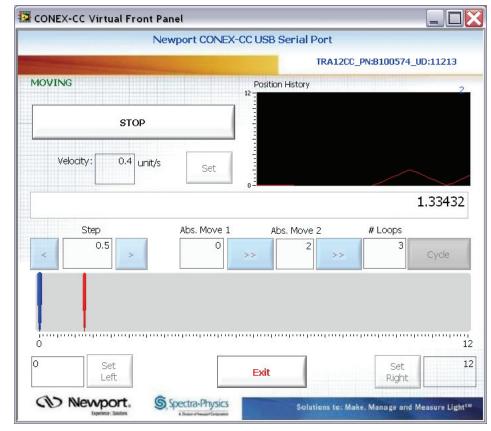
#### **2.16 Motion**





# 2.17 Example



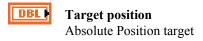


# 3.0 VI'S Description

#### 3.1 CONEX-CC Absolute Move v2.vi



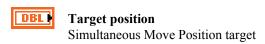
Set Absolute Position Move to start.



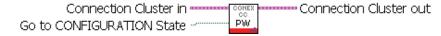
# 3.2 CONEX-CC Configure Simultaneous Started Move v2.vi



Set Simultaneous Started Move.



#### 3.3 CONEX-CC Enter-Leave CONFIGURATION State v2.vi



Set Configuration State to Enabled or Disabled.

T - Enabled - Enter Configuration state.

F - Leave Configuration state.



T - In Configuration State

#### 3.4 CONEX-CC Enter-Leave DISABLE State v2.vi

Connection Cluster in Connection Cluster out

Enable Ready State or Disabled State

Generally used after connecting to allow for moves to start, as device starts in Disabled state.



#### Ready? (false=DISABLE true=READY)

Ready? flag true - Ready to move false – Disabled

#### 3.5 CONEX-CC Execute Simultaneous Started Move v2.vi



SE - Execute simultaneous started move

#### 3.6 CONEX-CC Get Acceleration v2.vi



AC? - Get acceleration



Acceleration

Acceleration value

# 3.7 CONEX-CC Get Backlash Compensation v2.vi



BA? - Get backlash compensation



Response

Full Backlash Compensation Response string



**Backlash Compensation** 

**Backlash Compensation** 

# 3.8 CONEX-CC Get Command Error String v2.vi

Connection Cluster in Connection Cluster out

Error code Error description

Get description of error from error code.

Abc

Error code

Error Code

Abc

**Error description** 

Description of input error code.

# 3.9 CONEX-CC Get Control Loop State v2.vi



SC? - Get control loop state



Response

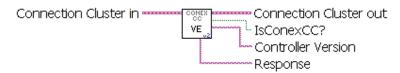
Contol Loop State full Response



**Control Loop State** 

Contol Loop State

# 3.10 CONEX-CC Get Controller Version v2.vi



VE - Get controller revision information



**Controller Version** 

Controller Version information



IsConexCC?

Is CONEX - CC?

#### 3.11 CONEX-CC Get Controller's RS485 address v2.vi

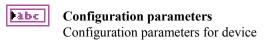
Connection Cluster in Connection Cluster out

SA? - Set controller's RS-485 address

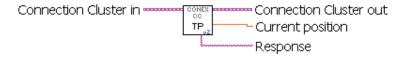
# 3.12 CONEX-CC Get Current Configuration Parameters v2.vi



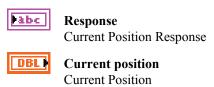
**ZT** - Get current configuration parameters



#### 3.13 CONEX-CC Get Current Position v2.vi



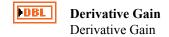
TP? - Get Current Position



#### 3.14 CONEX-CC Get Derivative Gain v2.vi



KD? - Get derivative gain



# 3.15 CONEX-CC Get Driver Voltage v2.vi



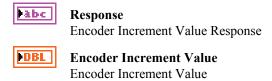
#### **DV?** - Get driver voltage



#### 3.16 CONEX-CC Get Encoder Increment Value v2.vi



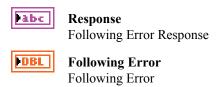
SU? - Get encoder increment value



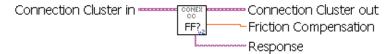
# 3.17 CONEX-CC Get Following Error Limit v2.vi



FE? - Get following error limit



# 3.18 CONEX-CC Get Friction Compensation v2.vi



FF? - Get friction compensation



Friction Compensation Response

Friction Compensation
Friction Compensation

#### 3.19 CONEX-CC Get Home Search Time-out v2.vi



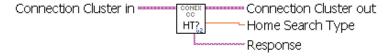
OT? - Get HOME search time-out



Home Search Time-out Response

# Home Search Time-out Home Search Time-out

# 3.20 CONEX-CC Get Home Search Type v2.vi



HT? - Get HOME search type

Response
HOME search type Response

Home Search Type
HOME search type

# 3.21 CONEX-CC Get Home Search Velocity v2.vi

Connection Cluster in Connection Cluster out
OH?
Home Search Velocity
Response

OH? - Get HOME search velocity

abc

Response

HOME search velocity Response

DBL

**Home Search Velocity** 

HOME search velocity

# 3.22 CONEX-CC Get Hysteresis Compensation v2.vi



BH? - Get hysteresis compensation

abc

Response

Hysteresis compensation Response

DBL

**Hysteresis Compensation** 

Hysteresis compensation

# 3.23 CONEX-CC Get Integral Gain v2.vi



KI? - Get integral gain



Integral Gain Integral gain

#### 3.24 CONEX-CC Get Jerk Time v2.vi

Connection Cluster in Connection Cluster out

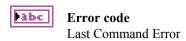
JR? - Get jerk time



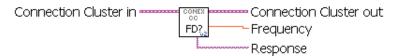
#### 3.25 CONEX-CC Get Last Command Error v2.vi



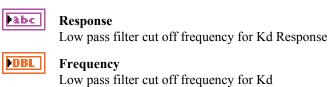
TE? - Get Error



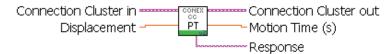
#### 3.26 CONEX-CC Get Low Pass Filter for Kd v2.vi



FD? - Get low pass filter cut off frequency for Kd



#### 3.27 CONEX-CC Get Motion Time for a Relative Move v2.vi



PT - Get motion time for a relative move

Input size of move to make, and it will output time for move.

**DBL** Displacement

Displacement to find time to achieve

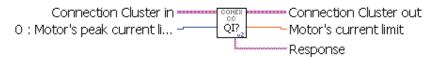
Response

Motion time for a relative move Response

Motion Time (s)

Motion time for a relative move

#### 3.28 CONEX-CC Get Motor's Current Limits v2.vi



QIx? - Get motor's current limits

Motor peak current selection of limit to query:

- 0: Motor's peak current limit (default)
- 1: Motor's rms current limit
- 2: Motor's rms current averaging time

Motor Query Type (0 - Peak Current)

Response
Motor's current limits Response

Motor's current limit
Motor's current limits

# 3.29 CONEX-CC Get Negative Software Limit v2.vi

Connection Cluster in Connection Cluster out

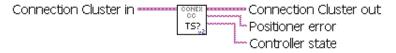
Get Negative Software Limit



Motor Query Type (0 - Peak Current) Left limit

Negative Software Limit

#### 3.30 CONEX-CC Get Positioner Error And Controller State v2.vi



TS? - Get Positioner Error and Controller State

#### 3.31 CONEX-CC Get Positive Software Limit v2.vi



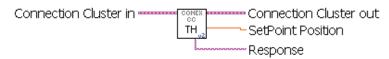
**SR?** - Get Positive Software Limit

#### 3.32 CONEX-CC Get Proportional Gain v2.vi



KP? - Get proportional gain

#### 3.33 CONEX-CC Get SetPoint Position v2.vi



TH? - Get set-point position

# 3.34 CONEX-CC Get Stage Identifier v2.vi



ID? - Get Stage Identifier

# 3.35 CONEX-CC Get Velocity Feed Forward v2.vi

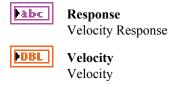


KV? - Get velocity feed forward

# 3.36 CONEX-CC Get Velocity v2.vi



VA? - Get Velocity



### 3.37 CONEX-CC Home search v2.vi

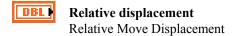


Home stage

#### 3.38 CONEX-CC Relative Move v2.vi

Connection Cluster in Connection Cluster out Relative displacement

PR - Relative Move



#### 3.39 CONEX-CC Reset Controller v2.vi



RS - Reset controller

#### 3.40 CONEX-CC Reset Controller's Address To 1 v2.vi



RS## - Reset controller's address to 1

# 3.41 CONEX-CC Set Acceleration v2.vi



AC - Set acceleration



#### 3.42 CONEX-CC Set Backlash Compensation v2.vi

Connection Cluster in Connection Cluster out

**BA** - Set backlash compensation



# 3.43 CONEX-CC Set Control Loop State v2.vi



SC - Set control loop state



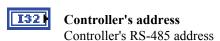
#### 3.44 CONEX-CC Set Controller's RS-485 address v2.vi



SA - Set controller's RS-485 address

#### **NOTE**

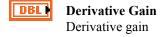
For CONEX over USB the RS-485 Address will always be 1, this command will not change the address. Each USB bus (cable) only talks to the attached device, not to any other device. Therefore, having the option of changing the address is not needed.



#### 3.45 CONEX-CC Set Derivative Gain v2.vi

Connection Cluster in Connection Cluster out

#### KD - Set derivative gain



# 3.46 CONEX-CC Set Driver Voltage v2.vi



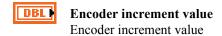
#### **DV** - Set driver voltage



#### 3.47 CONEX-CC Set Encoder Increment Value v2.vi



#### SU - Set encoder increment value



# 3.48 CONEX-CC Set Following Error Limit v2.vi



FE - Set following error limit



# 3.49 CONEX-CC Set Friction Compensation v2.vi

Connection Cluster in Connection Cluster out

FF - Set friction compensation

Friction Compensation
Friction compensation

#### 3.50 CONEX-CC Set Home Search Time-out v2.vi

Connection Cluster in Connection Cluster out

Home Search Time-out

OT - Set Home Search Time-out

Home Search Time-out
Home Search Time-out

### 3.51 CONEX-CC Set Home Search Type v2.vi

Connection Cluster in Connection Cluster out
Home Search Type

HT - Set HOME search type

Home Search Type
HOME search type

# 3.52 CONEX-CC Set Home Search Velocity v2.vi

Connection Cluster in Connection Cluster out

Home Search Velocity

OH - Set HOME search velocity

Home Search Velocity
HOME search velocity

# 3.53 CONEX-CC Set Hysteresis Compensation v2.vi

Connection Cluster in Connection Cluster out

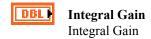
BH - Set hysteresis compensation



# 3.54 CONEX-CC Set Integral Gain v2.vi



KI - Set integral gain



#### 3.55 CONEX-CC Set Jerk Time v2.vi



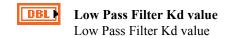
JR - Set jerk time



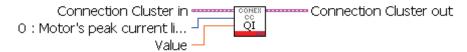
#### 3.56 CONEX-CC Set Low Pass Filter for Kd v2.vi



FD - Set Low Pass Filter for Kd



#### 3.57 CONEX-CC Set Motor's Current Limits v2.vi



OIx - Set motor's current limits

Motor Limit Types:

- 0: Motor's peak current limit (default)
- 1: Motor's rms current limit
- 2: Motor's rms current averaging time

The Type of limit must be selected and the value to set.

#### NOTE

Right click on the Type and selecting {Create Constant} will create an easy selection for the type.



Value

New Motor's Limit for Type selected



Motor's Limit Type Select (0 - Peak current)

Motor Limit Type select

# 3.58 CONEX-CC Set Negative Software Limit v2.vi



Set Negative Limit of travel



**Negative limit (left)** 

#### 3.59 CONEX-CC Set Positive Software Limit v2.vi



SR - Set Positive limit (right)



Positive limit (right)

Positive limit (right)

# 3.60 CONEX-CC Set Proportional Gain v2.vi

Connection Cluster in Connection Cluster out
Proportional Gain

**KP** - Set proportional gain

Proportional Gain
Proportional Gain

# 3.61 CONEX-CC Set Stage Identifier v2.vi

Connection Cluster in Connection Cluster out Stage Identifier

ID - Set Stage Identifier

Stage Identifier
Stage Identifier

# 3.62 CONEX-CC Set Velocity Feed Forward v2.vi

Connection Cluster in Connection Cluster out Velocity Feed Forward

KV - Set velocity feed forward

Velocity Feed Forward
Velocity Feed Forward

# 3.63 CONEX-CC Set Velocity v2.vi

Connection Cluster in Connection Cluster out

VA - Set Velocity



# 3.64 CONEX-CC Stop Motion v2.vi

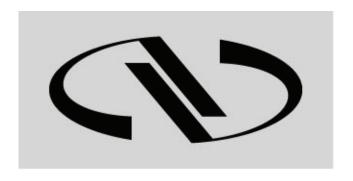
Connection Cluster in Connection Cluster out

ST - Stop Motion

CONEX-CC LabVIEW Drivers

# **Service Form**

		Your Local Representative Tel.:
		Fax:
Name:	Return authorization #:	
Company:	(Please obtain prior to return of item)	
Address:		
Country:		
P.O. Number:		
Item(s) Being Returned:		
Model#:		
Description		
Description:		
Reasons of return of goods (please list any specific problem	IS)	



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