

CONEX-CC

Single-Axis DC Motion with Controller/Driver







LabVIEW Drivers

V2.0.x

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Original instructions.

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Preface

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Single-Axis DC Motor Controller/Driver CONEX-CC

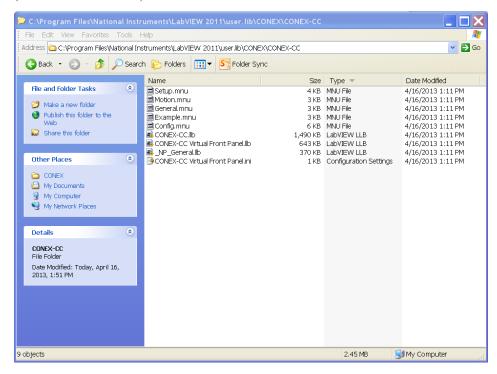
1.0 CONEX-CC LabVIEW Drivers

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

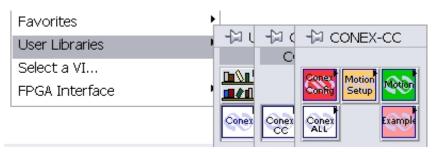
general communication Vis.

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

off the controller).

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

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

I32 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.

TF 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.

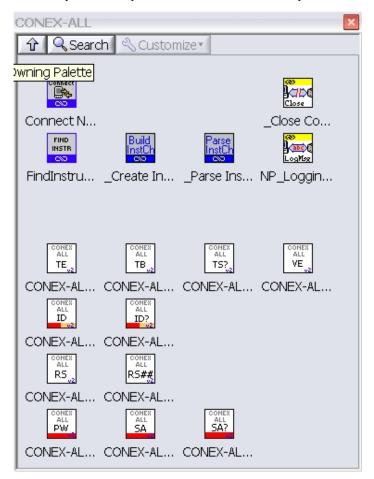
The pop-up option **Explain Error** (or Explain Warning) gives more information about the error displayed.

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.

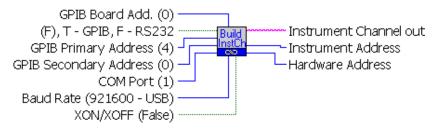


2.1.1 _Create Instrument Channel.vi

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.



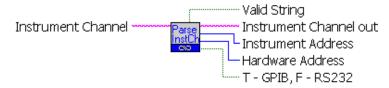
- **TF** (F), T GPIB, F RS232
- **UB** GPIB Primary Address (4)
- **U16** COM Port (1)
- **UB** GPIB Secondary Address (0)
- U8 GPIB Board Add. (0)
- **U32 |** Baud Rate (921600 USB)
- TF XON/XOFF (False)
- Instrument Channel out
- Instrument Address
- Hardware Address

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

FTF T - GPIB, F - RS232

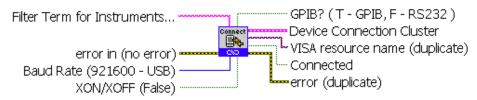
Valid String

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)
- **132** Baud Rate (921600 USB)
- XON/XOFF (False)
- **TF** Connected

Connected = true when connection is successful

VISA resource name (duplicate)

error (duplicate)

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

LabVIEW Drivers CONEX-CC

2.1.5 FindInstrument.vi

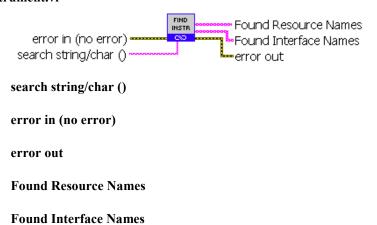
Abc

Para

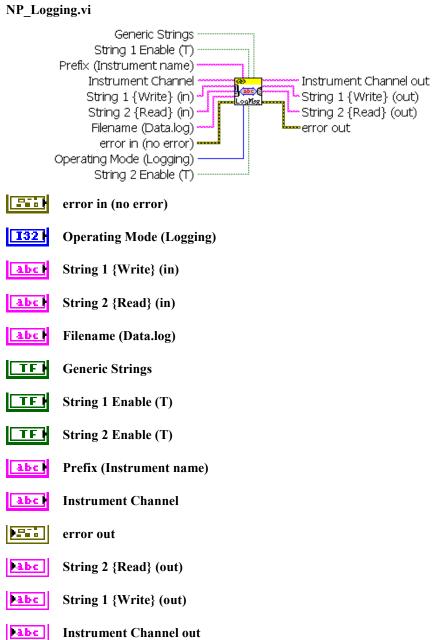
Pil

Abc

abc



2.1.6



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

Connection Cluster in Connection Cluster out

TF Go to CONFIGURATION State

Configuration State? T - In Configuration State

2.3 CONEX-ALL Get Command Error String v2.vi

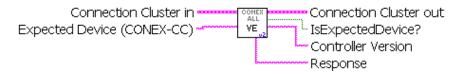
Connection Cluster in Connection Cluster out
Error code Error description

Error code
Error Code

Error description

Description of input error code.

2.4 CONEX-ALL Get Controller Version v2.vi



abcl Expected Device (CONEX-CC)

Response Full Response

Controller Version
Controller Version information

Is CONEX - CC?

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



Controller's address
Controllers address

2.6 CONEX-ALL Get Identifier v2.vi



Identifier
Identification of attached hardware.

2.7 CONEX-ALL Get Last Command Error v2.vi

Connection Cluster in Connection Cluster out TE, Error code

abc

Last Command Error

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



Controller at

Controller state
Controller State

2.9 CONEX-ALL Reset Controller v2.vi

Connection Cluster in Connection Cluster out RS.,

Resets CONEX-CC

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

Connection Cluster in Connection Cluster out

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

Connection Cluster in Controller's address Controller's address

132

Controller's address

Controller's RS-485 address

2.12 CONEX-ALL Set Identifier v2.vi

Connection Cluster in Connection Cluster out Stage Identifier

Abc

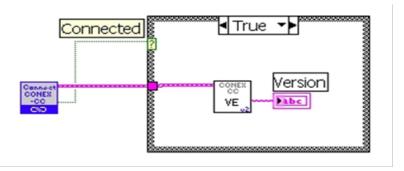
Stage Identifier

Page 9

Stage Identifier

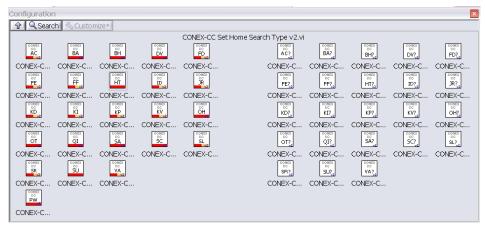
2.13 Examples

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



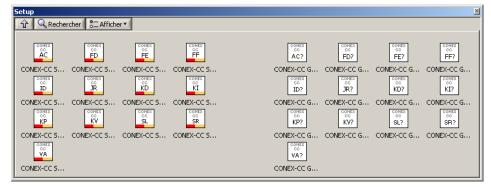
2.14 CONEX Configuration





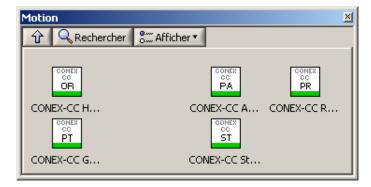
2.15 Motion Setup





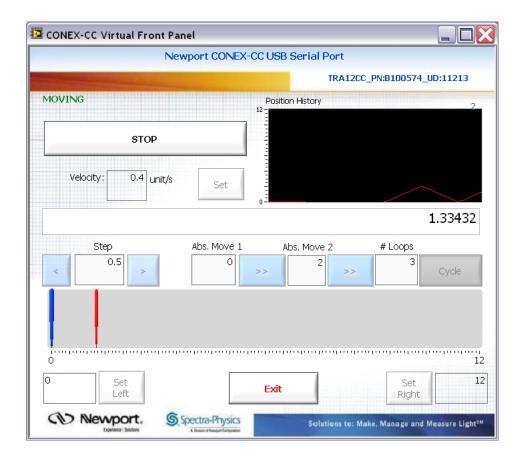
2.16 Motion





2.17 Example



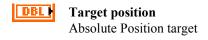


3.0 VI'S Description

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.



Target position

Simultaneous Move Position target

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.



Go to CONFIGURATION State

Configuration State?

T - In Configuration State

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

Connection Cluster in Connection Cluster out Ready? (false=DISABLE true=... MM,

Enable Ready State or Disabled State

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

TF

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



3.7 CONEX-CC Get Backlash Compensation v2.vi



BA? - Get 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.

Error code

Error Code

Error description

Description of input error code.

3.9 CONEX-CC Get Control Loop State v2.vi



SC? - Get control loop state

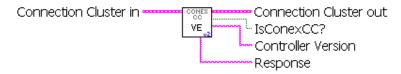
Response Response

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

Is CONEX - CC?

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

Connection Cluster in Connection Cluster out SA? Controller's address

SA? - Set controller's RS-485 address

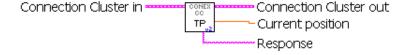
3.12 CONEX-CC Get Current Configuration Parameters v2.vi

Connection Cluster in Connection Cluster out Configuration parameters

ZT - Get current configuration parameters

Configuration parameters
Configuration parameters for device

3.13 CONEX-CC Get Current Position v2.vi



TP? - Get Current Position

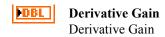
Response
Current Position Response

Current position
Current Position

3.14 CONEX-CC Get Derivative Gain v2.vi



KD? - Get derivative gain



LabVIEW Drivers

3.15 CONEX-CC Get Driver Voltage v2.vi



DV? - Get driver voltage



Driver Voltage
Driver Voltage

3.16 CONEX-CC Get Encoder Increment Value v2.vi



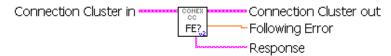
SU? - Get encoder increment value

1bc Response

Encoder Increment Value Response

Encoder Increment Value
Encoder Increment Value

3.17 CONEX-CC Get Following Error Limit v2.vi



FE? - Get following error limit

Response
Following Error Response

Page 17

Following Error
Following Error

CONEX-CC

LabVIEW Drivers CONEX-CC

3.18 **CONEX-CC Get Friction Compensation v2.vi**

Connection Cluster in CONEX CC FF?, Connection Cluster out Friction Compensation Response

FF? - Get friction compensation

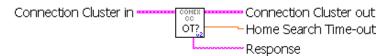
Response abc

Friction Compensation Response

DBL **Friction Compensation**

Friction Compensation

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



OT? - Get HOME search time-out

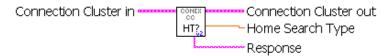
abc Response

Home Search Time-out Response

DBL **Home Search Time-out**

Home Search Time-out

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



HT? - Get HOME search type

abc Response

HOME search type Response

DBL **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

Response

HOME search velocity Response

IDBL Home Search Velocity

HOME search velocity

3.22 CONEX-CC Get Hysteresis Compensation v2.vi



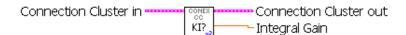
BH? - Get hysteresis compensation

1 Response

Hysteresis compensation Response

Hysteresis Compensation
Hysteresis compensation

3.23 CONEX-CC Get Integral Gain v2.vi



KI? - Get integral gain



3.24 CONEX-CC Get Jerk Time v2.vi

Connection Cluster in Connection Cluster out

JR? - Get jerk time

Jerk Time
Jerk Time

3.25 CONEX-CC Get Last Command Error v2.vi



TE? - Get Error

Error code

Last Command Error

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



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

Response
Low pass filter cut off frequency for Kd Response

Frequency

Low pass filter cut off frequency for Kd

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

Connection Cluster in Connection Cluster out
Displacement Motion Time (s)
Response

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

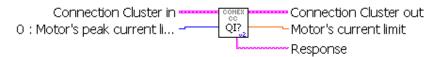
1bc Response

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

I32 Motor Query Type (0 - Peak Current)

1 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



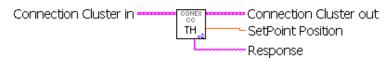
SR? - Get Positive Software Limit

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

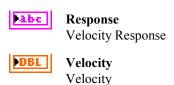


KV? - Get velocity feed forward

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

Relative displacement
Relative Move Displacement

3.39 CONEX-CC Reset Controller v2.vi

Connection Cluster in Connection Cluster out

RS - Reset controller

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

Connection Cluster in Connection Cluster out

RS## - Reset controller's address to 1

3.41 CONEX-CC Set Acceleration v2.vi

Connection Cluster in Connection Cluster out

AC - Set acceleration



3.42 CONEX-CC Set Backlash Compensation v2.vi

Connection Cluster in Connection Cluster out

BA - Set backlash compensation

Backlash

DBL

Backlash compensation

3.43 CONEX-CC Set Control Loop State v2.vi

Connection Cluster in Control Loop State Control Loop State

SC - Set control loop state

132

Control Loop State
Control loop state

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

Connection Cluster in Connection Cluster out

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.

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Controller's address

Controller's RS-485 address

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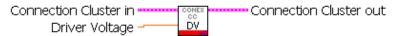
3.45 CONEX-CC Set Derivative Gain v2.vi

Connection Cluster in Connection Cluster out

KD - Set derivative gain

DEL Derivative Gain Derivative gain

3.46 CONEX-CC Set Driver Voltage v2.vi



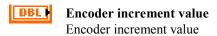
DV - Set driver voltage



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

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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

Hysteresis
Hysteresis

3.54 CONEX-CC Set Integral Gain v2.vi

Connection Cluster in Connection Cluster out Integral Gain

KI - Set integral gain

Integral Gain
Integral Gain

3.55 CONEX-CC Set Jerk Time v2.vi



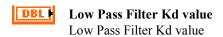
JR - Set jerk time

Jerk Time 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

Connection Cluster in Connection Cluster out

O: Motor's peak current li...

Value

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

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



VA - Set Velocity



3.64 CONEX-CC Stop Motion v2.vi

Connection Cluster in Connection Cluster out

ST - Stop Motion

Service Form

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



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