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Original instructions.

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Preface

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First printing 2010.

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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
- **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 VI’s with white background are configuration VI’s 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 instrument. 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.

![Diagram of _Create Instrument Channel.vi]

2.1.2 _Close Communications.vi

Instrument Channel

Instrument Channel

error in (no error)
2.1.3 Parse Instrument Channel.vi

- 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.

- Filter Term for Instruments "" - none
- String used to verify expected device is found.

- error in (no error)
- Baud Rate (921600 - USB)
- XON/XOFF (False)
- Connected
  - Connected = true when connection is successful
- VISA resource name (duplicate)
- error (duplicate)
- GPIB? ( T - GPIB, F - RS232 )
2.1.5 FindInstrument.vi

- error in (no error)
- search string/char ()
- error in (no error)
- error out
- Found Resource Names
- Found Interface Names

2.1.6 NP_Logging.vi

- error in (no error)
- Operating Mode (Logging)
- Generic Strings
  - String 1 Enable (T)
  - Prefix (Instrument name)
- Instrument Channel
  - String 1 {Write} (in)
  - String 2 {Read} (in)
  - Filename (Data.log)
- Generic Strings
  - String 1 {Write} (out)
  - String 2 {Read} (out)
- error out
- String 2 Enable (T)
- Prefix (Instrument name)
- Instrument Channel
- error out
- String 2 {Read} (out)
- String 1 {Write} (out)
- Instrument Channel out
2.2 CONEX-ALL Enter-Leave CONFIGURATION State v2.vi

Connection Cluster in Connection Cluster out
Go to CONFIGURATION State

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

Connection Cluster in Connection Cluster out
Expected Device (CONEX-CC) Controller Version
IsExpectedDevice?

Expected Device (CONEX-CC)
Response
Full Response

Controller Version
Controller Version information

IsExpectedDevice?
Is CONEX - CC?

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

Connection Cluster in Connection Cluster out
Controller's address

Controller's address
Controllers address

2.6 CONEX-ALL Get Identifier v2.vi

Connection Cluster in Connection Cluster out
Identifier

Identifier
Identification of attached hardware.
2.7 CONEX-ALL Get Last Command Error v2.vi

Connection Cluster in Error code
Connection Cluster out Error code

Error code
Last Command Error

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

Connection Cluster in Positioner error
Connection Cluster out Controller state

Positioner error
Positioner Error

Controller state
Controller State

2.9 CONEX-ALL Reset Controller v2.vi

Connection Cluster in
Connection Cluster out

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
Connection Cluster out

Controller's address
Controller's RS-485 address

2.12 CONEX-ALL Set Identifier v2.vi

Connection Cluster in Stage Identifier
Connection Cluster out

Stage Identifier
Stage Identifier
**2.13 Examples**

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

![Example Diagram]

**2.14 CONEX Configuration**

![Configuration Diagram]

**2.15 Motion Setup**

![Motion Setup Diagram]
2.16 Motion

![Motion](image)

2.17 Example

![Example](image)
3.0 VI’S Description

3.1 CONEX-CC Absolute Move v2.vi

Connection Cluster in ➔ Connection Cluster out
Target position ➔ PA

Set Absolute Position Move to start.

[Target position] Absolute Position target

3.2 CONEX-CC Configure Simultaneous Started Move v2.vi

Connection Cluster in ➔ Connection Cluster out
Target position ➔ CF

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

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

```
Ready? (false=D ENABLE 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 value

3.7 CONEX-CC Get Backlash Compensation v2.vi

```
BA? - Get backlash compensation
```

Full Backlash Compensation Response string
3.8   CONEX-CC Get Command Error String v2.vi

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
- Control Loop State full Response
- Control Loop State

3.10  CONEX-CC Get Controller Version v2.vi

VE - Get controller version information

- Controller Version
- Controller Version information
- IsConexCC?
- Is CONEX - CC?
3.11 CONEX-CC Get Controller's RS485 address v2.vi

- SA? - Set controller's RS-485 address

3.12 CONEX-CC Get Current Configuration Parameters v2.vi

- ZT - Get current configuration parameters
  - Configuration parameters for device

3.13 CONEX-CC Get Current Position v2.vi

- TP? - Get Current Position
  - Current Position Response

3.14 CONEX-CC Get Derivative Gain v2.vi

- KD? - Get derivative gain
  - Derivative Gain
3.15 CONEX-CC Get Driver Voltage v2.vi

`DV?` - Get driver voltage

- **abc** Response
  - Driver Voltage
- **DBL** Driver Voltage

3.16 CONEX-CC Get Encoder Increment Value v2.vi

`SU?` - Get encoder increment value

- **abc** Response
  - Encoder Increment Value Response
- **DBL** Encoder Increment Value
  - Encoder Increment Value

3.17 CONEX-CC Get Following Error Limit v2.vi

`FE?` - Get following error limit

- **abc** Response
  - Following Error Response
- **DBL** Following Error
  - Following Error
3.18  CONEX-CC Get Friction Compensation v2.vi

**FF?** - Get friction compensation

- **Response**
  Friction Compensation Response

- **DBL**
  Friction Compensation

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

**OT?** - Get HOME search time-out

- **Response**
  Home Search Time-out Response

- **DBL**
  Home Search Time-out

3.20  CONEX-CC Get Home Search Type v2.vi

**HT?** - Get HOME search type

- **Response**
  HOME search type Response

- **DBL**
  HOME search type
3.21 CONEX-CC Get Home Search Velocity v2.vi

Connection Cluster in

Connection Cluster out

HOME search velocity

Response

OH? - Get HOME search velocity

Response

HOME search velocity Response

Home Search Velocity

HOME search velocity

3.22 CONEX-CC Get Hysteresis Compensation v2.vi

Connection Cluster in

Connection Cluster out

Hysteresis Compensation

Response

BH? - Get hysteresis compensation

Response

Hysteresis compensation Response

Hysteresis Compensation

Hysteresis compensation

3.23 CONEX-CC Get Integral Gain v2.vi

Connection Cluster in

Connection Cluster out

Integral Gain

KI? - Get integral gain

Integral Gain

Integral gain
3.24 CONEX-CC Get Jerk Time v2.vi

JR? - Get 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

Frequency

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.

**Displacement**
Displacement to find time to achieve

**Response**
Motion time for a relative move

**Motion Time (s)**
Motion time for a relative move

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

QI!? - 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

**Motor's current limit**
Motor's current limits
3.29 CONEX-CC Get Negative Software Limit v2.vi

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

Response
Velocity Response
Velocity

3.37  CONEX-CC Home search v2.vi

Home stage
3.38 CONEX-CC Relative Move v2.vi

PR - Relative Move

Relative displacement
Relative Move Displacement

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

Acceleration
3.42 CONEX-CC Set Backlash Compensation v2.vi

BA - Set backlash compensation

Backlash compensation

3.43 CONEX-CC Set Control Loop State v2.vi

SC - Set control loop state

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

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

FF - Set friction compensation

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

OT - Set Home Search Time-out

3.51 CONEX-CC Set Home Search Type v2.vi

HT - Set HOME search type

3.52 CONEX-CC Set Home Search Velocity v2.vi

OH - Set HOME search velocity
3.53 CONEX-CC Set Hysteresis Compensation v2.vi

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

QIx - 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.

3.58 CONEX-CC Set Negative Software Limit v2.vi

Set Negative Limit of travel

3.59 CONEX-CC Set Positive Software Limit v2.vi

SR - Set Positive limit (right)
3.60  CONEX-CC Set Proportional Gain v2.vi

KP - Set proportional gain

3.61  CONEX-CC Set Stage Identifier v2.vi

ID - Set Stage Identifier

3.62  CONEX-CC Set Velocity Feed Forward v2.vi

KV - Set velocity feed forward

3.63  CONEX-CC Set Velocity v2.vi

VA - Set Velocity
3.64 CONEX-CC Stop Motion v2.vi

ST - Stop Motion
Service Form

Name: ____________________________  Return authorization #: ____________________________

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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