

CONEX-IOD

Analog/Digital I/O Module



Newport®
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Controller GUI Manual

V1.0.x

For Motion, Think Newport™

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CONEX-IOD

Analog/Digital I/O Module

1.0 Introduction

1.1 Purpose

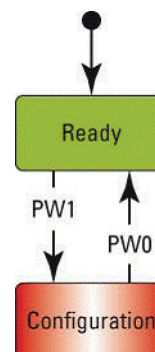
The purpose of this document is to provide instructions on how to use the CONEX-IOD controller GUI.

1.2 Overview

The CONEX -IOD Controller GUI is a software application that has a graphical user interface (GUI) which allows the user to interact with the CONEX-IOD controller.

1.3 Controller State Diagram

The CONEX-IOD controller is defined by the following state diagram.



Controller's LED display:

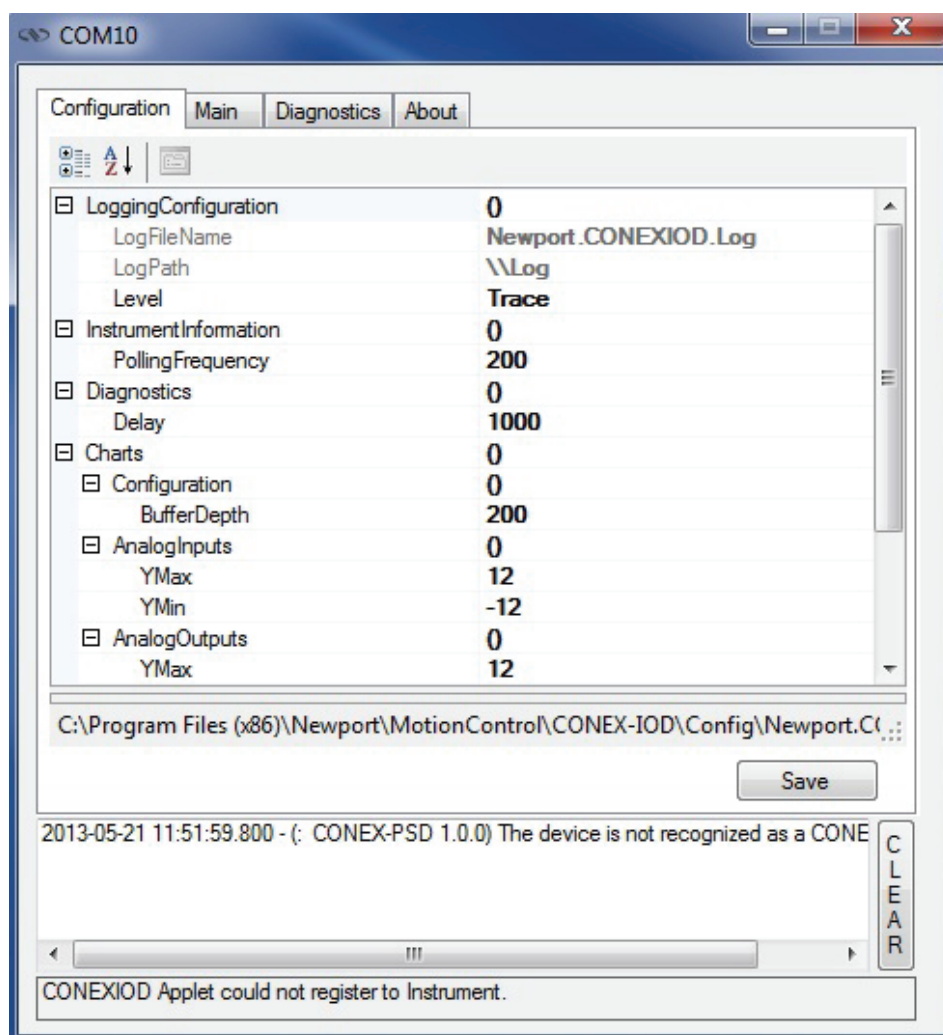
CONFIGURATION: **SLOW BLINK RED.**

READY: **SOLID GREEN.**

2.0 User Interface

2.1 Configuration

The Configuration tab allows the user to view and / or change information related to the logging configuration and the instrument settings. Read only values are displayed for the log file name and the log file path. The logging level may be changed to any of the settings in the drop-down list on the right hand side. Trace is the most detailed of the settings and when this setting is selected the controller GUI logs everything. Critical Error is the least detailed of the settings and when this setting is selected the controller GUI will only log errors that are defined to be critical.



The polling interval defines the number of milliseconds between each time the controller GUI polls the CONEX-IOD for the latest information. The user may change the polling interval by entering a value.

The **Save** button allows to save the current settings to the configuration file.

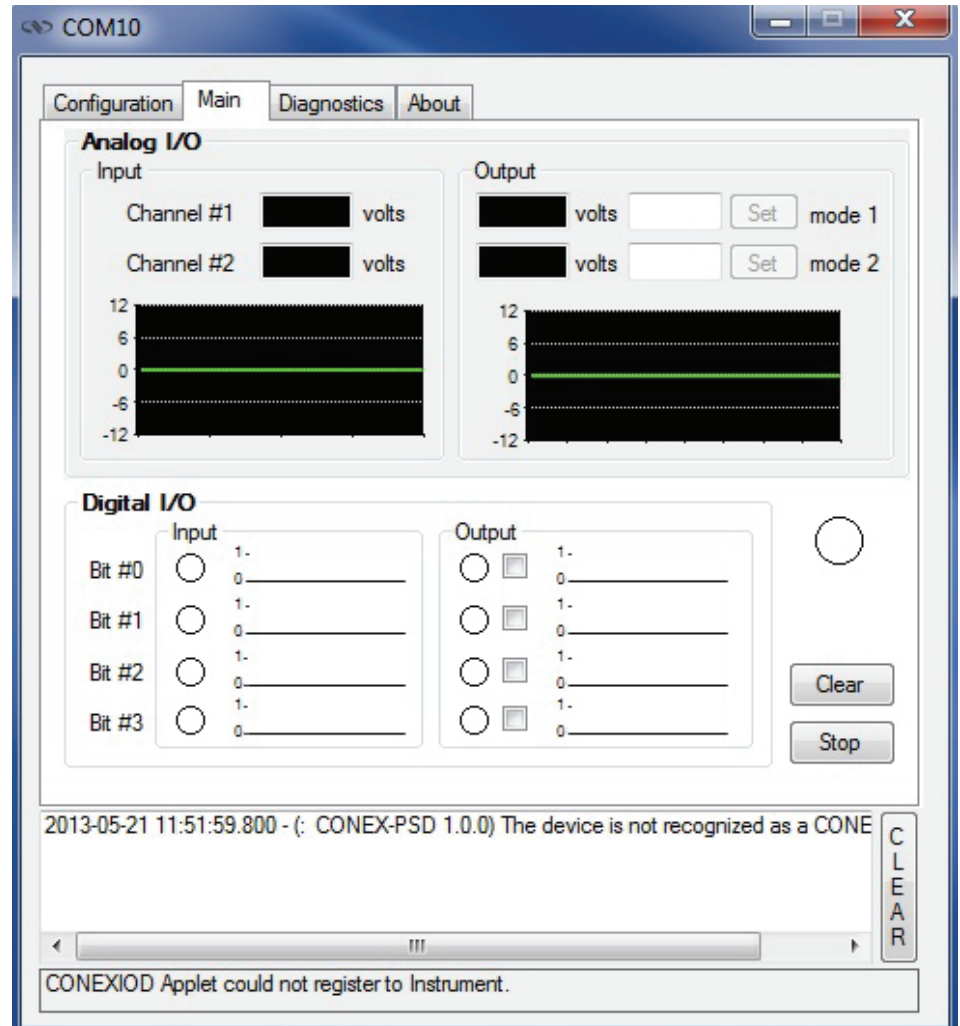
Configurable settings

The following table describes all the settings that can be change by the user.

Parameter	Description Values	Default
LoggingConfiguration		
Level	Logging level. Trace is the most detailed of the settings and when this setting is selected the controller GUI logs everything. Critical Error is the least detailed of the settings and when this setting is selected the controller GUI will only log errors that are defined to be critical.	Trace Trace Detail Equipment Message Info Warning Error Critical Error
InstrumentInformation		
PollingInterval	The polling interval defines the number of milliseconds (delay) between each time the controller GUI polls the instrument for the latest information.	An Integer 200
Diagnostics		
Delay	The delay defines the number of milliseconds between each sent command from a text file.	An Integer 1000
Models\InstrumentInfo		
CommunicationChannel	The communication channel	USB USB
Charts		
BufferDepth	BufferDepth defines the maximum number of analog I/O values displayed in the chart.	200
YMin	YMin defined the minimum Y limits fo the analog chart. This parameter can be used to perform a zoom.	-12
YMax	YMax defined the maximum Y limits fo the analog chart. This parameter can be used to perform a zoom.	12

2.2 Main

The Main tab displays the main controls in the controller GUI like a virtual front panel. It is updated each time the polling interval timer expires.



“Controller status led”

A single led shows the current controller state. When you move the mouse over the led, the controller state is displayed in an information balloon.

“Clear button”

This button allows clear all charts.

“Stop button”

This button allows stopping the chart refreshing.

“Analog I/O”***“Input”***

In the “Current analog I/O” area, the current analog inputs (channel #1 and #2) are displayed in text box and visualized in a chart. The chart limits can be modifying from the configuration Tab.

“Output”

In the “Current analog I/O” area, the current analog outputs (channel #1 and #2) are displayed in text box and visualized in a chart. The chart limits can be modifying from the configuration Tab.

For each channel, the analog output value can be modifying. Enter a new value in the edit box and press on “Set” to apply.

“Digital I/O”***“Input”***

In the “Current digital I/O” area, the current digital inputs (Bit #1, #2, #3 and #4) are displayed in text box and visualized in chart.

“Output”

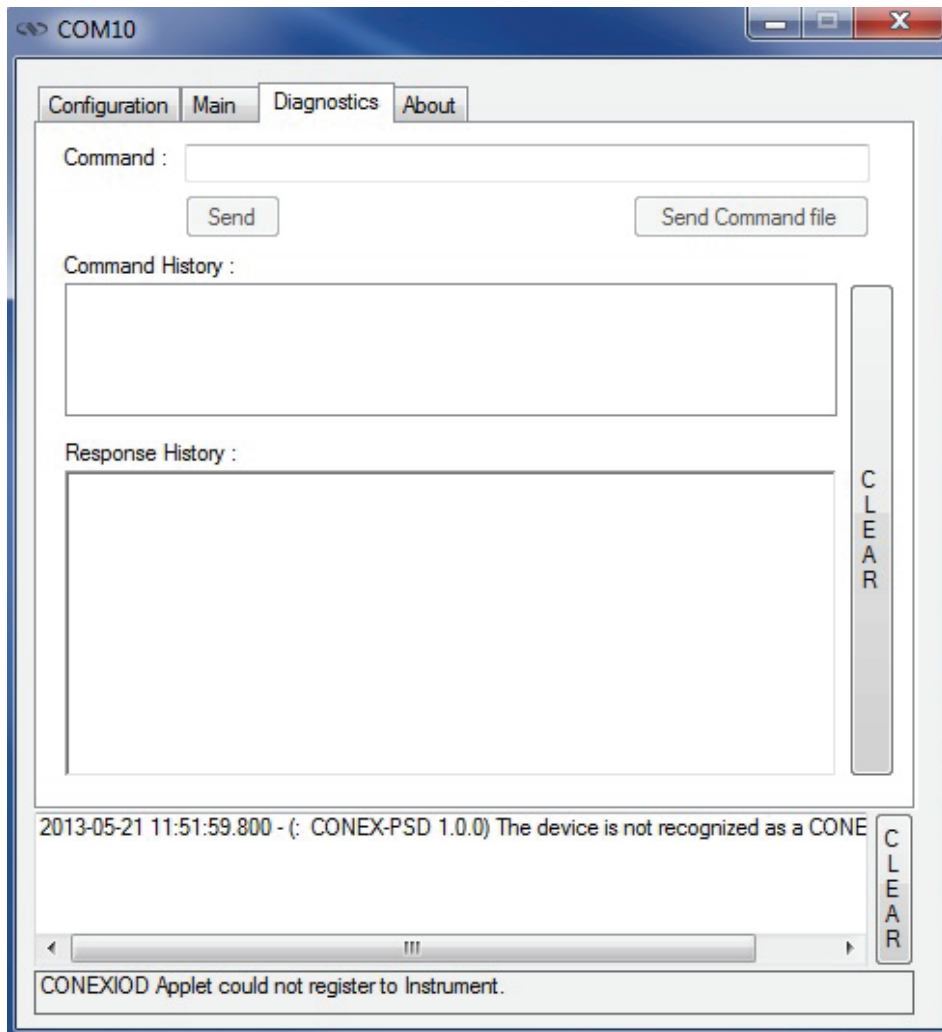
In the “Current digital I/O” area, the current digital outputs (Bit #1, #2, #3 and #4) are displayed in text box and visualized in chart.

For each analog output, a check box allows to modify its state.

2.3 Diagnostics

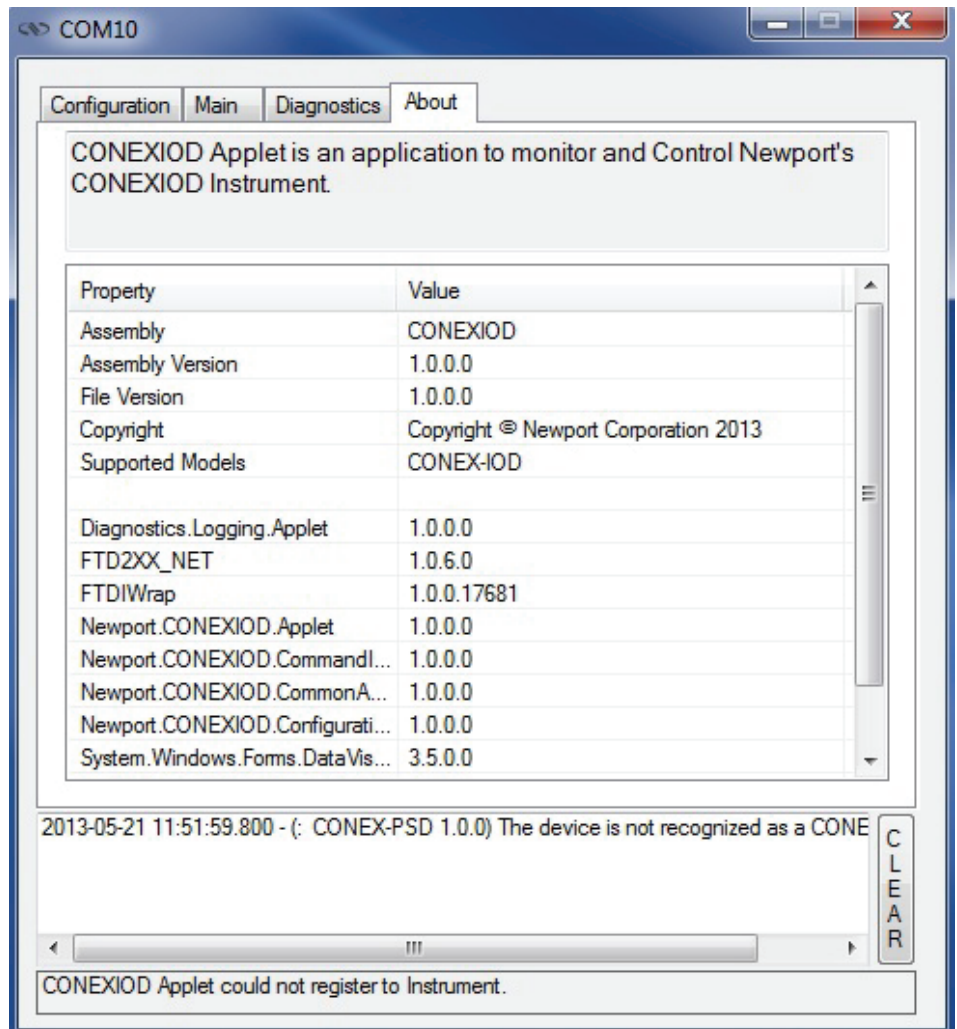
The Diagnostics tab allows the user to enter instrument commands and to view the history of commands sent and responses received. This list of commands and the syntax of each command can be found in the user's manual for the instrument.

A file of commands can be sent line by line to the instrument with the "Send Command file" button.



2.4 About

The About tab allows to display information about the controller GUI and the connected instrument. It displays the controller GUI name, version, and copyright information. It also displays the instrument model, instrument key (serial number) and firmware version.



Service Form

Your Local Representative

Tel.:
Fax:

Name:	Return authorization #:
Company:	(Please obtain prior to return of item)
Address:	Date:
Country:	Phone Number:
P.O. Number:	Fax Number:
Item(s) Being Returned:	
Model#:	Serial #:

Description:

Reasons of return of goods (please list any specific problems):



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