Agilis AG-UC2 & AG-UC8

Agilis™ *Series*
Controllers

Newport®
Experience | Solutions

Applet Manual

V2.0.0

Table of Contents

Agilis AG-UC2 & AG-UC8
Agilis™ Series Controllers

1.0   Introduction

1.1   Purpose

The purpose of this document is to provide instructions on how to use the Newport AG-UC2-UC8 Applet.

1.2   Overview

The Newport AG-UC2-UC8 Applet is a software application that has a graphical user interface (GUI) which allows the user to interact with the AGILIS-UC2 or AGILIS-UC8 controller.

1.3   Controller State Diagram

The AGILIS-UC controller is defined by the following state diagram.
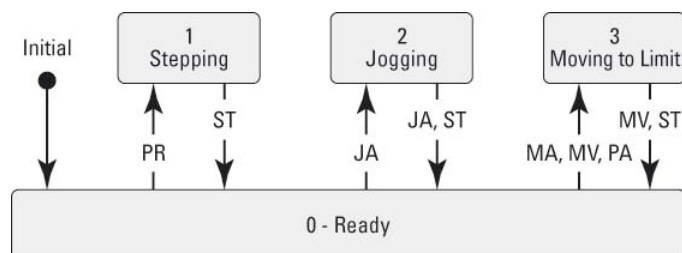
Controller's LED display:

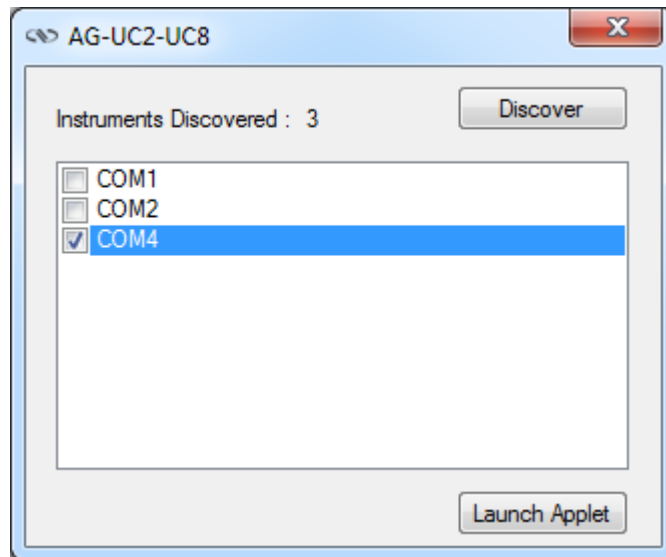|	
READY:	SOLID GREEN.
STEPPING:	FAST BLINKING GREEN.
JOGGING:	FAST BLINKING GREEN.
MOVING TO LIMIT:	FAST BLINKING GREEN.

2.0   User Interface

2.1   Device selection

Click on the "Discover" button to get a list of detected serial COM ports.

Next, select the serial COM port that corresponds to your device and click the "Launch Applet" button to run the graphical interface.

2.2   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 applet logs everything. Critical Error is the least detailed of the settings and when this setting is selected the applet will only log errors that are defined to be critical.
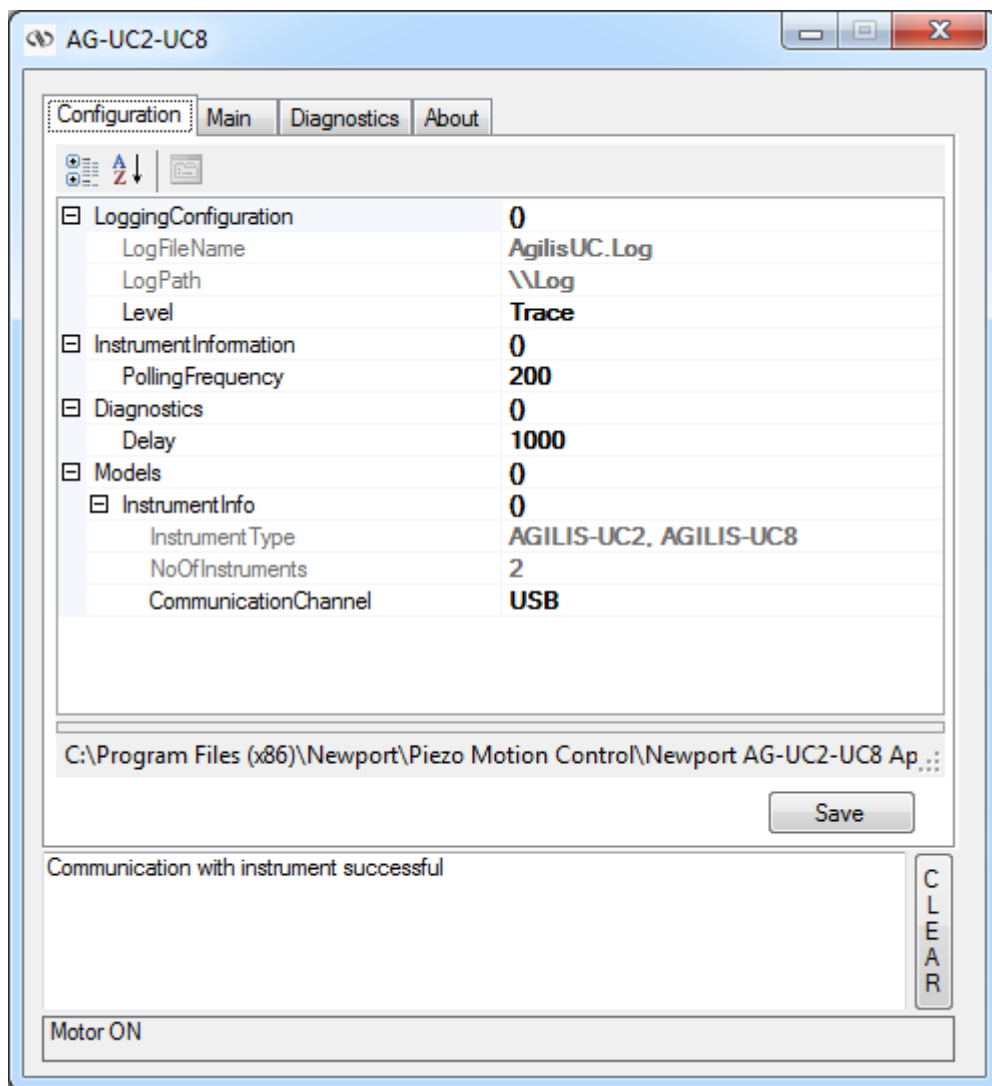
The polling interval defines the number of milliseconds between each time the applet polls the controller for the latest information. The user may change the polling interval by entering a value.

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

Newport
Experience | Solutions

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 applet logs everything. Critical Error is the least detailed of the settings and when this setting is selected the applet will only log errors that are defined to be critical.	Trace Detail Equipment Message Info Warning Error Critical Errror	**Trace**
InstrumentInformation			
PollingFrequency	The polling interval defines the number of milliseconds between each time the applet polls the instrument for the latest information.	An Integer	**200**
Diagnostics			
Delay	The Delay defines the number of milliseconds (delay) between each command of a file of commands in the diagnostics tab.	An Integer	**1000**
Models\InstrumentInfo			
CommunicationChannel	The communication channel	USB	**USB**

Newport
Experience | Solutions

2.3   Main

The Main tab displays the main controls in the applet like a virtual front panel.
It is updated each time the polling interval timer expires.
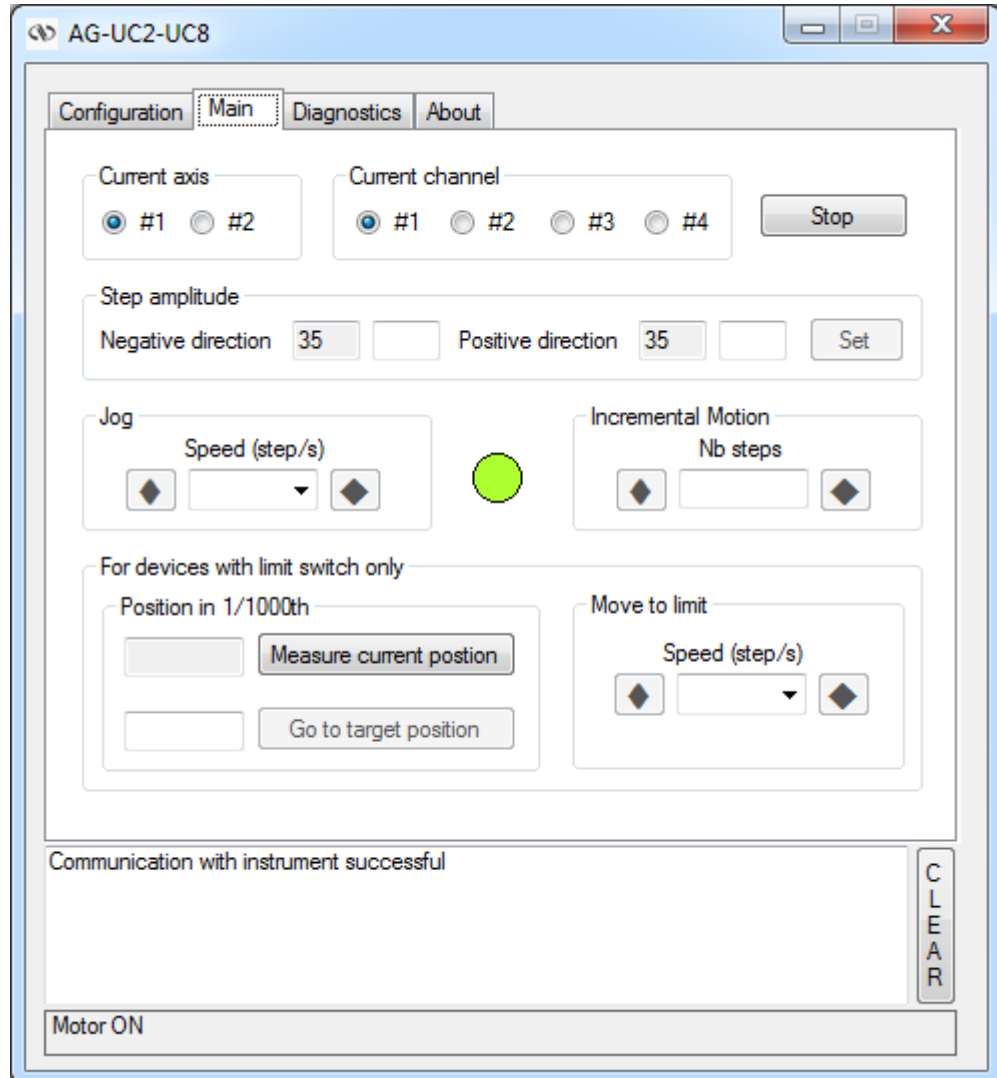
"Current axis"

In the "Current axis" area, the axis number is selected for the following
functions.

"Current channel"

In the "Current channel" area, the piezo actuators are selected by pairs. This
area is specific to AG-UC8.

"Step amplitude"

In the "Step amplitude", the currents steps amplitudes are displayed in a
disabled text box: "Negative direction" and "Positive direction". These steps
amplitude can be modified and saved with the "Set" button (Maximum 50).

"Jog"

In the "Jog" area, the speed can be defined (5, 100, 666, 1700 steps/s). A jog motion can be performing in the negative direction or a positive direction.

"Incremental Motion"

In the "Incremental Motion" area, the step can be defined. For this step, a relative move can be performing in the negative direction or a positive direction.

"Position in 1/1000th"

"Measure current position"

The distance of the current position to the limit in 1/1000th of the total travel is displayed after a measure. This measure is launched using the "Measure current position" button. This only works with devices that feature a limit switch like models AG-LS25, AG-M050L and AG-M100L.

Process of position measurement
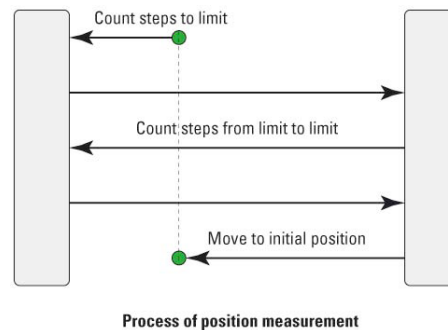
"Go to target position"

The "Go to target position" button starts a process to move to an absolute position (see below). This only works with devices that feature a limit switch like models AG-LS25, AG-M050L and AG-M100L.
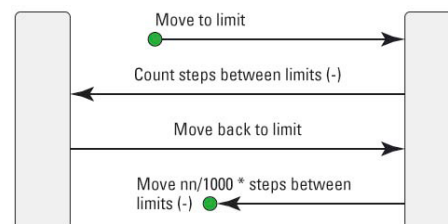
"Move to limit"

In the "Move to limit" area, the speed can be defined (5, 100, 666, 1700 steps/s) for starts a motion to the limits. This only works with devices that feature a limit switch like models AG-LS25, AG-M050L and AG-M100L.

2.4   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.

The Send button is used to send the contents of the Command text box to the instrument.

The Disconnect / Connect button allows communication to be reestablished.

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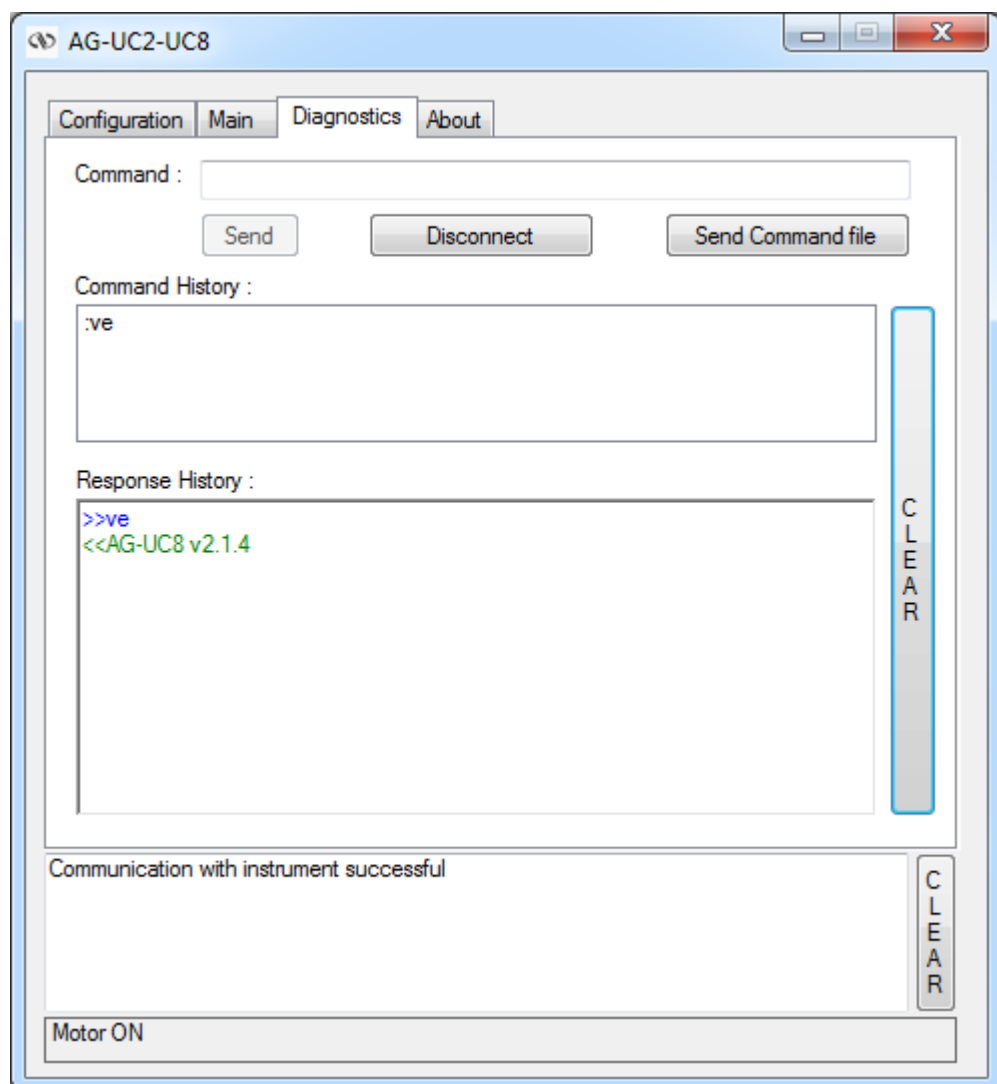
2.5   About

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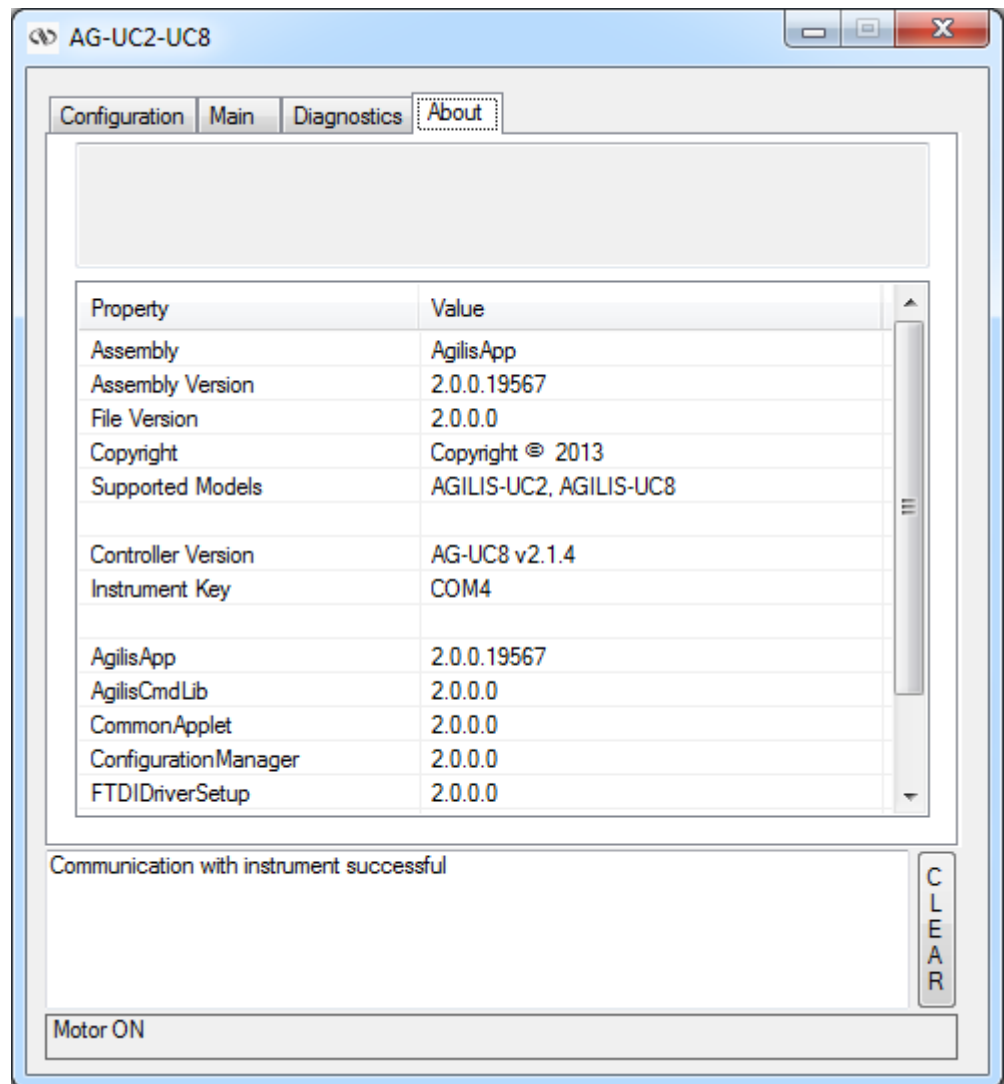
Service Form

Name: _____

Company:_____

Address: _____

Country: _____

P.O. Number: _____

Item(s) Being Returned:_____

Model#: _____

Return authorization #: _____
(Please obtain prior to return of item)

Date: _____

Phone Number: _____

Fax Number: _____

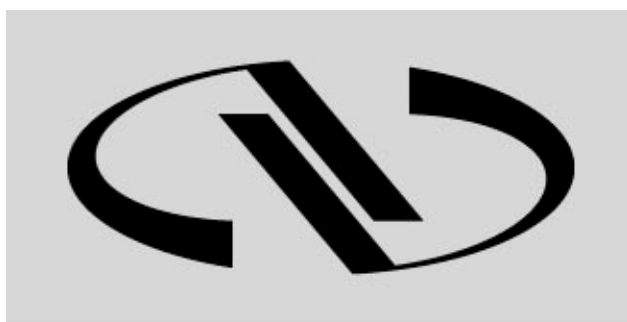Serial #: _____

Description: _____

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

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

Newport®

Experience | Solutions

North America & Asia
Newport Corporation
1791 Deere Ave.
Irvine, CA 92606, USA

Sales
Tel.: (800) 222-6440
e-mail: sales@newport.com

Technical Support
Tel.: (800) 222-6440
e-mail: tech@newport.com

Service, RMAs & Returns
Tel.: (800) 222-6440
e-mail: rma.service@newport.com

Europe
MICRO-CONTROLE Spectra-Physics S.A.S
1, rue Jules Guesde – Bât. B
ZI Bois de l'Épine – BP189
91006 Evry Cedex
France

Sales
Tel.: +33 (0)1.60.91.68.68
e-mail: france@newport-fr.com

Technical Support
e-mail: tech_europe@newport.com

Service & Returns
Tel.: +33 (0)2.38.40.51.55