



User Guide : SCIOLOGEX-MS7-H550-Pro Driver

Version V1.0



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Neosoft Technologies Inc.
1009 Route de l'Église, bureau 405
Québec, QC G1V 3V7

Neosoft Technologies Inc.
4800 rue de Rouen, suite 230
Montréal, QC H1V 3T4

Toll Free: 1-866-636-7381
Phone : (418) 948-8324
Fax : (418) 948-8325
<http://www.neosoft.ca>



REVISIONS

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1 About This User Guide

This guide describes all the different VIs needed to control the SCIOLOGEX stirrer from LabVIEW. The communication is made over a serial port, using RS-232 protocol. There is an example VI included in the driver to demonstrate how to use it. This driver was tested on a SCIOLOGEX-MS7-H550-Pro hotplate stirrer.

2 Requirements

This driver is intended for:

- Windows 7 and later
- LabVIEW 2017 and later
- SCIOLOGEX-MS7-H550-Pro hotplate stirrer

Note that this product is not intended for LabVIEW Real-Time or FPGA.

It is also under license and will only work with a valid and activated license. Building or using an application (executable) containing VIs from this driver will require a valid license.

3 Troubleshooting

Note that to install this driver through VI Package Manager, you must have administrative privileges for both VIPM and LabVIEW. To do this :

- 1) Close LabVIEW and VIPM if they are running
- 2) Right-click on VIPM and select *Run as administrator*. This will make it so LabVIEW also has admin rights once VIPM launches it
- 3) Open *scilogex_ms7_h550_pro_driver-x.x.x.xx.vip* and install it. LabVIEW should be launched at this point
- 4) Follow the direction on screens until the VIP is installed

4 VIs Details

SCIOLOGEX_Basic_Example.vi:



VI Description:

Basic example demonstrating how to use this driver

Open_Port.vi:



VI Description:

Opens a session to the VISA resource specified and configures the port for communication.

Baud Rate : 9600

Bits : 8

Parity : None

Stop Bit : 1

Flow Control : None

Timeout : 10s

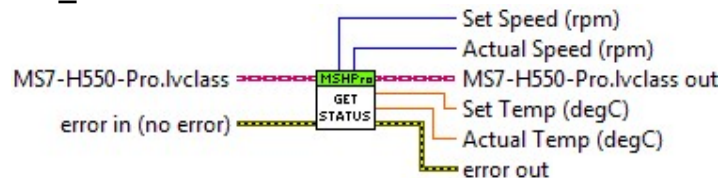
Get_Info.vi:



VI Description:

Gets the state (active/inactive) of stirring and heating

Get_Status.vi:



VI Description:

Reads the setpoint for stirring and heating on the device. Also reads the actual temperature and stirring speed

Set_StirringSpeed.vi:



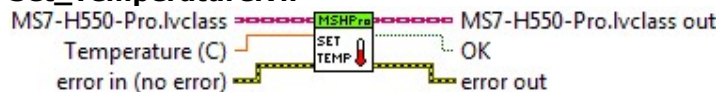
VI Description:

Sets the stirring speed setpoint in rpm and turns on the stirring

Accepted range : 100-1499 rpm (if out of range, input value is coerced to nearest limit)



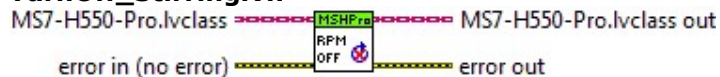
Set_Temperature.vi:



VI Description:

Sets the stirring speed setpoint in rpm and turns on the stirring
Accepted range : 100-1499 rpm (if out of range, input value is coerced to nearest limit)

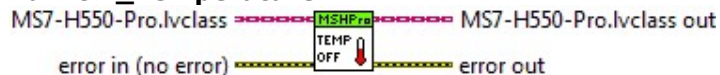
TurnOff_Stirring.vi:



VI Description:

Turns off stirring and sets speed setpoint to 100rpm

TurnOff_Temperature.vi:



VI Description:

Turns off heating and sets temperature setpoint to 25C

Close_Port.vi:



VI Description:

Turns off the heating and stirring and closes the device session