

ModuLab Firmware Upgrade Pack

Installation Instructions

Purpose

This document describes how users of the Solartron Analytical ModuLab Potentiostats and FRAs can upgrade the firmware installed in these instruments to improve their performance.

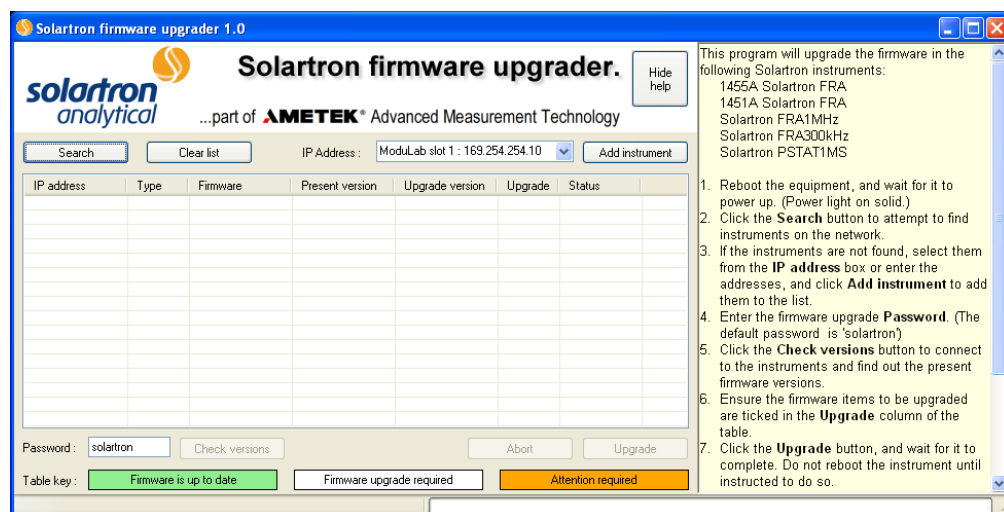
Requirements

Before proceeding, take a few moments to check that you have the following items to hand:-

- a) The ModuLab chassis housing the modules to be upgraded.
- b) A computer with the Microsoft .Net Framework 3.5 or above already installed. If the ModuLab software is installed on this machine, then the Framework will already be installed. For Windows XP or Vista, this can be downloaded from Microsoft.com. With Windows 7, 8 and 10 this is a feature of the Operating System which needs to be enabled. Open the Start menu, and type 'Turn Windows features on or off'
- c) A working Ethernet connection between the ModuLab chassis and the computer.
- d) The firmware upgrader program `FirmwareUpgrade.exe`, extracted to the computer and stored to a folder on the local hard drive. To avoid any problems do not attempt to use a network drive.

Procedure

- a) Run the `FirmwareUpgrade.exe` program
- b) Follow the instructions for performing the upgrade, which are displayed in the right hand window pane.



- c) If the firmware has not previously been upgraded, it will probably be necessary to perform the upgrade twice. The first time, only the 'ARM' firmware will be upgraded. The power to the ModuLab chassis is then cycled, causing a reboot of the system, and the second stage will then upgrade the 'DSP' firmware.

IP address	Type	Firmware	Present version	Upgrade version	Upgrade	Status	
169.254.254.10	FRA	DSP Firmware	01.00.00	01.03.00	<input checked="" type="checkbox"/>		
		ARM Firmware	01.00.00	01.03.00	<input checked="" type="checkbox"/>		
169.254.254.11	Pstat	DSP Firmware	01.00.00	01.07.00	<input checked="" type="checkbox"/>		
		ARM Firmware	01.00.00	01.02.00	<input checked="" type="checkbox"/>		

↓ ARM upgraded. Reboot.

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169.254.254.10	FRA	DSP Firmware	01.00.00	01.03.00	<input checked="" type="checkbox"/>		
		ARM Firmware	01.03.00	01.03.00	<input type="checkbox"/>		
169.254.254.11	Pstat	DSP Firmware	01.00.00	01.07.00	<input checked="" type="checkbox"/>		
		ARM Firmware	01.02.00	01.02.00	<input type="checkbox"/>		

↓ DSP upgraded. Reboot.

IP address	Type	Firmware	Present version	Upgrade version	Upgrade	Status	
169.254.254.10	FRA	DSP Firmware	01.03.00	01.03.00	<input type="checkbox"/>		
		ARM Firmware	01.03.00	01.03.00	<input type="checkbox"/>		
169.254.254.11	Pstat	DSP Firmware	01.07.00	01.07.00	<input type="checkbox"/>		
		ARM Firmware	01.02.00	01.02.00	<input type="checkbox"/>		

- d) Cycle the power a second time, and click the "Check versions" button to verify that all modules have been upgraded. The Upgrader program can then be closed.

Further Advice

If you require further help or assistance in performing this update then please contact our technical support via e-mail at **PARSOLSR.Support@Ametek.com**



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5 ASHVILLE WAY
MOLLY MILLARS LANE
WOKINGHAM, RG41 2PL
UNITED KINGDOM
Phone: +44 (0) 1252 556 800
Fax: +44 (0) 1252 556 899

801 SOUTH ILLINOIS AVENUE
OAK RIDGE
TN 37831-2011
USA
Phone: +1 865 425 1360
Fax: +1 865 481 2410

Visit our website for a complete list of our global offices and authorized agents

solartron.info@ametek.com

www.solartronanalytical.com