

FRA Firmware History

Purpose

This document summarizes the changes made to the firmware fitted to the following Solartron FRAs since the initial release.

- 1455 FRA
- 1451 FRA
- ModuLab FRA1MHz
- ModuLab FRA300kHz
- ModuLab XM FRA1MHz
- ModuLab XM FRA300kHz
- Modulab MFRA1MHz
- EchemLab XM FRA
- SolarLab XM FRA
- EnergyLab XM FRA
- MaterialsLab XM FRA

FRA Firmware History

The FRAs require two different types of firmware to operate, one for the ARM processor, which supports communications, and the other for the instrument's DSP. Each set of firmware has its own version number. The table below lists the major firmware revisions for the combination of the two.

Revision	Date	Changes Included
ARM 01.06.00 DSP 02.00.03	Jun 2016	Added support for EchemLab XM, SolarLab XM, EnergyLab XM and MaterialsLab XM
ARM 01.05.02 DSP 02.00.03	Mar 2015	Bug Fix: <ul style="list-style-type: none">• Auto integration lock-up
ARM 01.05.02 DSP 02.00.01	Nov 2014	Bug Fix: <ul style="list-style-type: none">• support for ModuLab XM 300KHz
ARM 01.05.01 DSP 02.00.01	July 2014	Added support for ModuLab XM
ARM 01.04.00 DSP 02.00.01	Jan 2014	Bug Fixes <ul style="list-style-type: none">• Re-compiled with latest compiler revision
ARM 01.04.00 DSP 01.05.11	Oct 2011	Bug Fixes <ul style="list-style-type: none">• Updated web page for MFRA 1MHz• Auto integration,• 50mHz lockup• Noise at low frequencies• FRA lockup when sweep stops
ARM 01.03.00 DSP 01.05.00	May 2009	Prevents accidental loading of incorrect firmware. Bug Fixes: <ul style="list-style-type: none">• The Instrument web page would lockup the instrument if it was refreshed too many times.• Minor updates

ARM 01.02.00 DSP 01.02.00	November 2008	Updated to support ModuLab FRAs. Bug Fixes: <ul style="list-style-type: none">• Auto-integration was not working correctly.• When Auxiliary channels were used results were sometimes noisy.• Auxiliary channels were not working correctly below 0.05Hz
ARM 01.00.00 DSP 01.00.00	August 2005	Initial release.



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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