

# FRA Firmware History

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## 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

## 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 01.03.00 DSP 01.05.00	May 2009	Prevents accidental loading of incorrect firmware. Bug Fixes: <ul style="list-style-type: none"><li>• The Instrument web page would lockup the instrument if it was refreshed too many times.</li><li>• Minor updates</li></ul>
ARM 01.02.00 DSP 01.02.00	November 2008	Updated to support ModuLab FRAs. Bug Fixes: <ul style="list-style-type: none"><li>• Auto-integration was not working correctly.</li><li>• When Auxiliary channels were used results were sometimes noisy.</li><li>• Auxiliary channels were not working correctly below 0.05Hz</li></ul>
ARM 01.00.00 DSP 01.00.00	August 2005	Initial release.



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