

RELEASE NOTES

AARC510

Adaptive Aeromagnetic Real-Time Compensator

Host Firmware Release RMS11031-02-F

These release notes contain important information about the new firmware and how it will affect the performance of instruments in which it is installed. The notes outline functional enhancements, adaptive changes and, if applicable, problem corrections.

Please read this documentation carefully. References to pertinent sections in the product's user's guide are shown in square brackets.

Compatibility:

(D)AARC500 Front End – Requires firmware RMS1877-04-E or later
AARC5XX Support Software – Requires v. Jul/2019 or later

1. Support of optional output of FOM estimates.

When this option is enabled a rough estimate of the FOM measure, intended only as a general reference, is displayed together with the core (standard-deviation-based) calibration statistics the system has always provided.

[User's Guide: Section 3.4.1]

2. New facilities for analysis of calibration flights' solutions, providing insight into changes undergone by the magnetic signature of an installation.

Measures calculated for the various 'classes' of solution terms (e.g., permanent, induced, etc.) assess the change in relevance for each class between any pair of calibration solutions.

(This replaces the *display terms* function of previous firmware releases.)

[User's Guide: Section 3.5.1.3]

3. Enhancements to the Remote Control Port interface: (a) new command to clear RLSQ initial conditions; (b) support of an 'extended' status packet (in addition to the 'legacy' packet of previous firmware revisions), which encodes also the recording status of the system.

[User's Guide: Section 3.4.1]

4. Minor/cosmetic: Formatting enhancements to the system log file ('monasc.txt').