RMS INSTRUMENTS
For Geophysical Exploration

RELEASE NOTES

AARC510

Adaptive Aeromagnetic Real-Time Compensator

Host Firmware Release RMS11031-03-C

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 Firmware:	*≥ RMS1877-05-A, with HW Rev. ≥ 2.10*
	≥ RMS1877-04-E, with HW Rev. < 2.10
(D)AARC5XX Support Software:	*≥ Oct/2021*

---

1. The system now supports a third logical connection for acquisition and recording of streaming data in the form of TCP/IP packets over the Ethernet interface. Data for the third connection are recorded in a separate file ('t3'), analogous to those used for the primary ('t') and secondary ('t2') connections.

   [User's Guide: Sections 3.4.6, 4.4.1]

2. Three fields in the *custom numeric display* are now dedicated to displaying user-defined windows of incoming data received through TCP/IP connections.

   [User's Guide: Section 3.4.6]

3. New functionality has been added to allow *system time* to be automatically initialized from GPS time (if available) every time a run mode is started.

   [User's Guide: Sections 3.1.2, 3.4.1, 2.4.1.1]

4. The capturing of the AgNav Navigation System's *line number* is now based on delimiters (instead of character count). This avoids potential problems if/when the data packet's format varies in length/structure.

   [User's Guide: Appendix L.3]

---

5. Miscellaneous minor changes: (a) USB-based Flash drives can now be formatted directly on the AARC510; (b) access to the user interface control to select the magnetometer sensor type is blocked for Access Level < 1; (c) qualified reporting of FE-Host communications errors in the text section of the user interface; (d) the contents of the log file have been cleaned-up and re-formatted; (e) cosmetic improvements to the storage-capacity indicator and file-name field above it, including an explicit numeric label showing % used.