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RELEASE NOTES

DAARC500

Adaptive Aeromagnetic Real-Time Compensator

Host Firmware Release RMS11030-04-G

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.

FULL* Compatibility:

(D)AARC500 Front End Firmware:	*≥ RMS1877-05-C*
HW Revision:	*≥ 2.10*
(D)AARC5XX Support Software:	*≥ Jul/2024*

[*] *To asses partial compatibility with other releases, or for non-active products, refer to Application Note DAARC5XX-035 – (D)AARC5XX Compatibility Chart:*
http://www.rmsinst.com/servicesupport/releasenotes/Compatibility%20Chart.pdf

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1. Enhancements to output via general-purpose serial ports. A new *single packet* transmit mode is now supported in addition to the conventional *periodic* mode. It can be used to send configuration commands to an external device which needs explicit setup with every power cycle.

    [Section 3.4.7.3]

2. Added custom-device support for enhanced real-time monitoring for radar altimeters with ARINC-429 output, interfaced to via RTX adapter.

    [Appendix E.1.2, Appendix O]

3. Support of a new startup mode, *Check HDD/SSD.* Similar to the default *idle* startup mode, but the system will wait until recording devices are ready before allowing access.

    [Section 3.4.1]

4. Additional feedback is now provided upon termination of *adaptive mode*: in addition to a comprehensive tabular summary of the changes in performance statistics, a measure of the overall merit of the adaptation process is encoded in the background color of the ADAPT button.

    [Section 3.5.2.1]

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5.   Simplified the restoring of successful adaptive solutions.

   [Appendix G, Section 3.5.2.1]

6.   The selection of 4-trace-mode or 8-trace-mode for the real-time graphic display is now stored as part of the configuration file.

   [Section 3.4.5]

7.   Minor / cosmetic: Added separators in the *custom numerical display* to emphasize cells which may be used to monitor quality-control signals.

   [Section 3.4.5]