

## RELEASE NOTES

### AARC510

#### Adaptive Aeromagnetic Real-Time Compensator

#### Host Firmware Release RMS11031-03-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.*

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*FULL\* Compatibility:*

*(D)AARC500 Front End Firmware: ≥ RMS1877-05-C*

*HW Revision: ≥ 2.20*

*(D)AARC5XX Support Software: ≥ Apr/2024*

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*[ \* ] To assess 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>*

1. Introduced the Vector Mag Quality Measure, which facilitates real-time assessment of the overall soundness of fluxgate (vector) magnetometer measurements. When monitored on the numerical display, color coding readily alerts the operator of signal loss or excessive noise/bias levels.

*[Table 3.3]*

2. Introduced a configuration parameter to allow a user-selectable offset between host IP addresses for logical TCP/IP connections beyond the primary one.

*[Sec. 3.4.9]*

3. Added the Roke Type-2 radar altimeter to the list of ancillary sensors supported as 'custom devices' for enhanced real-time monitoring.

*[Appendix L.5]*

4. TCP/IP data monitoring windows in the custom numerical display now offer more flexibility, allowing both ASCII-text and binary encoding. This allows, for example, real-time monitoring of specific user-selected fields within (RSI) radiometrics data packets.

*[Sec. 3.4.6]*