



## RELEASE NOTES

### AARC510

### Adaptive Aeromagnetic Real-Time Compensator

### Host Firmware Release RMS11031-03-B

*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:  $\geq$  RMS1877-05-A, with HW Rev.  $\geq$  2.10  
 $\geq$  RMS1877-04-E, with HW Rev.  $<$  2.10 (excepting Item #4)
- (D)AARC5XX Support Software:  $\geq$  Apr/2021
- 

1. The Remote Control Port now has an alternate operating mode, whereby it is used to capture the *line number* field in data packets transmitted by an Ag-Nav Navigation System. Such systems are often used in conjunction with the AARC510 in geophysical applications.

*[User's Guide: Sections 2.3.7, 3.4.3, Appx. L]*

2. In the (unlikely) event of conflicting file names when initiating a run mode, the system will prompt the user to choose between (a) overwriting the existing 'd' file (and any 't' files associated with it); and (b) leaving the existing files intact, and creating new files with the suffix 'A' at the end of their names.

*[User's Guide: Section 3.4.2]*

3. Improved feedback to the user when setting up critical Front End parameters relevant to processing power requirements.

*[User's Guide: Section 3.4.1.1]*

4. Support embedded barometric pressure and temperature sensors (with HW Rev.  $\geq$  2.10).

Allow designation of FE analog channels AN02 and AN03 as either 'general purpose', or dedicated to 'embedded sensors'. Scale signals in engineering units (numerical and graphical output). Enabling is conditional on HW revision and FE-analog option status.

*[User's Guide: Section 3.4.1.1h]*