

4. 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 'a', 's', and '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]

5. Addition of system variables for monitoring, in graphical and/or numerical form, the recording of data to the various output files (d, a, s, t, t2).

[User's Guide: Section 3.4.2, Table 3.3]

6. Addition of LED-like indicators on the main screen to indicate active recording on each of the output data files: 'd' (magnetics + GPS + FE-Analog), 'a' (analog), 's' (serial), 't' (Ethernet, primary connection), and 't2' (Ethernet, secondary connection).

[User's Guide: Sections 3.3.1, 3.4.2]

7. In the user interface dialog for setup of the *magnetics data output and remote control ports*, automatically calculate and display the bandwidth requirement for data transmission via the serial output port. This simplifies setup, as the requirement is a function of a large number of variables (number of mag channels and gradients, sampling/output rate, output data format, baud rate, inclusion/exclusion of GPS data, etc.).

[User's Guide: Section 3.4.3]

8. 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]

9. 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 3.4.1.1i]

10. Cosmetic/functional improvements to the user interface dialog for setup of the numerical display.

[User's Guide: Section 3.3.2]