

MRU Software History

This document includes the release notes for the 5th generation MRU software and only works on MRU units with serial number above 20000 (identified by titanium coloured housing and Ethernet communication). It is important that the user goes through the different releases to check whether any changes in the software affect the users own application.

Version 5.01.05 released 2013.06.27:

Changed functionality

- *New digital interface commands and compatibility with some earlier generation commands.* New commands to change digital output parameters and get digital output parameters are implemented. These commands support the 5th generation MRU's features with more serial lines and Ethernet. In addition this new MRU software will respond correctly to the following two previous generation commands; "Select Digital Output Format" and "Get Digital Output Format". If the MRU receives one of these old commands, the MRU will respond as if it was an older generation MRU with the previous source IDs. For more detailed information, see Appendix A "Digital Interface" in the latest MRU Installation Manual.

Corrected error

- *Heave output on analog channels.* Heave output variables on the analog channels only works if the same output variables are configured on the digital output lines (serial or Ethernet). Else the analog output variables are not activated and calculated within the MRU software. This has now been corrected and it is enough to configure the output variables on the analog channels to be activated.

Version 5.01.01 released 2012.10.04:

New functionality:

- *Support all MRU models of 5th generation.* This software support the MRU models 3, 2 and D in addition to 5+, 5, E, and H.
- *Support all MRU models of 5th generation.* This software support the MRU models 3, 2 and D in addition to 5+, 5, E, and H.
- *Output of heave period.* The variable 129 has changed functionality and is now equal to the output in MRU version 3.5.1 and earlier. This variable outputs now the actual heave period used by the Automatic heave filter. The new variable 159 HeavePeriod outputs the estimated heave period.

Version 5.01.00 released 2012.06.27:

New functionality:

- Supports all 5th generation MRU models.
- The Seapath binary 23 format now outputs velocity in North, East and Down direction.

- The delay of the PFreeHeave output is changed to exactly 132 seconds.

Corrected errors:

- The scaling error on analog outputs from the MRU junction box (MRU-E-JB3) is corrected.

Version 5.00.02 released 2010.05.03:

This is the first version operation on the 5th generation MRU models. This generation include new functionality as:

- Ethernet communication (three output ports and one input port)
- Output of data on two independently configurable serial lines (COM1 and 2)
- The maximum output data rate is increased from 100 to 200 Hz.
- The time delay on output data is reduced.
- Delayed heave output with increased heave accuracy on long period swell is introduced and named PFreeHeave.
- The heave filter mode Automatic has been improved.
- Sensitivity to vibration as been changed from sequences of 50 Hz to 100 Hz.