



Product: MRU 5th Generation

Version: MRU sw revision 5.01.05

Date: 2013-06-27

Release Note

This MRU version 5.01.05 is an upgrade of previous software with following changes from earlier version:

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.

Note: This MRU software version only works on 5th generation MRU models (identified by serial number above 20000, titanium coloured housing and Ethernet communication).

Installation

Use of MRC+ version 5.02.00 or later to upgrade the 5th generation MRU to MRU sw version 5.01.05. Proceed as follows:

- 1) Copy the new MRU software file **MruV515.bex** from the Memory stick or Email file to the MRU or MRC directory on your PC with the MRC+ software installed.
- 2) Connect the MRU to the PC by use of the MRU-T-015 cable and the MRU-E-CE1 peer-to-peer Ethernet cable. Use the power supply MRU-E-P24 to supply the MRU with 24 V DC. Insert the power connector on the power inlet on the MRU-T-015 box. Alternatively, connect the MRU to the junction box MRU-E-JB3 and an Ethernet cable between the PC and the junction box.
- 3) When the MRU LED is flashing green, start up the MRC+ software by double-clicking on the MRC+ icon.
- 4) Click on the **Sensor** menu and select **Connect**. Enter the IP-address and port number and press **Connect** button. The selection "Factory IP address" includes the default MRU IP address (192.168.1.20). Note: If problems connecting the MRU to the MRC+ see **MRC+ Help** under the **Help** menu in MRC+ or the Installation Manual.
- 5) The MRC+ receives configuration from the MRU and a **Configuration** tab appears on the screen. You are now connected and can upgrade the MRU software.
- 6) Click on the **Sensor** menu and select **Upgrade software**. Enter the location of the **MruV511.bex** file and press **Open**. Press **Yes** to the question "Are you sure you want to upgrade software on the MRU?". The upgrade starts and takes also some seconds.
- 7) In the MRC+ top bar **5.01.05** is shown in the **MRU sw version** field. If so, the installation is completed.