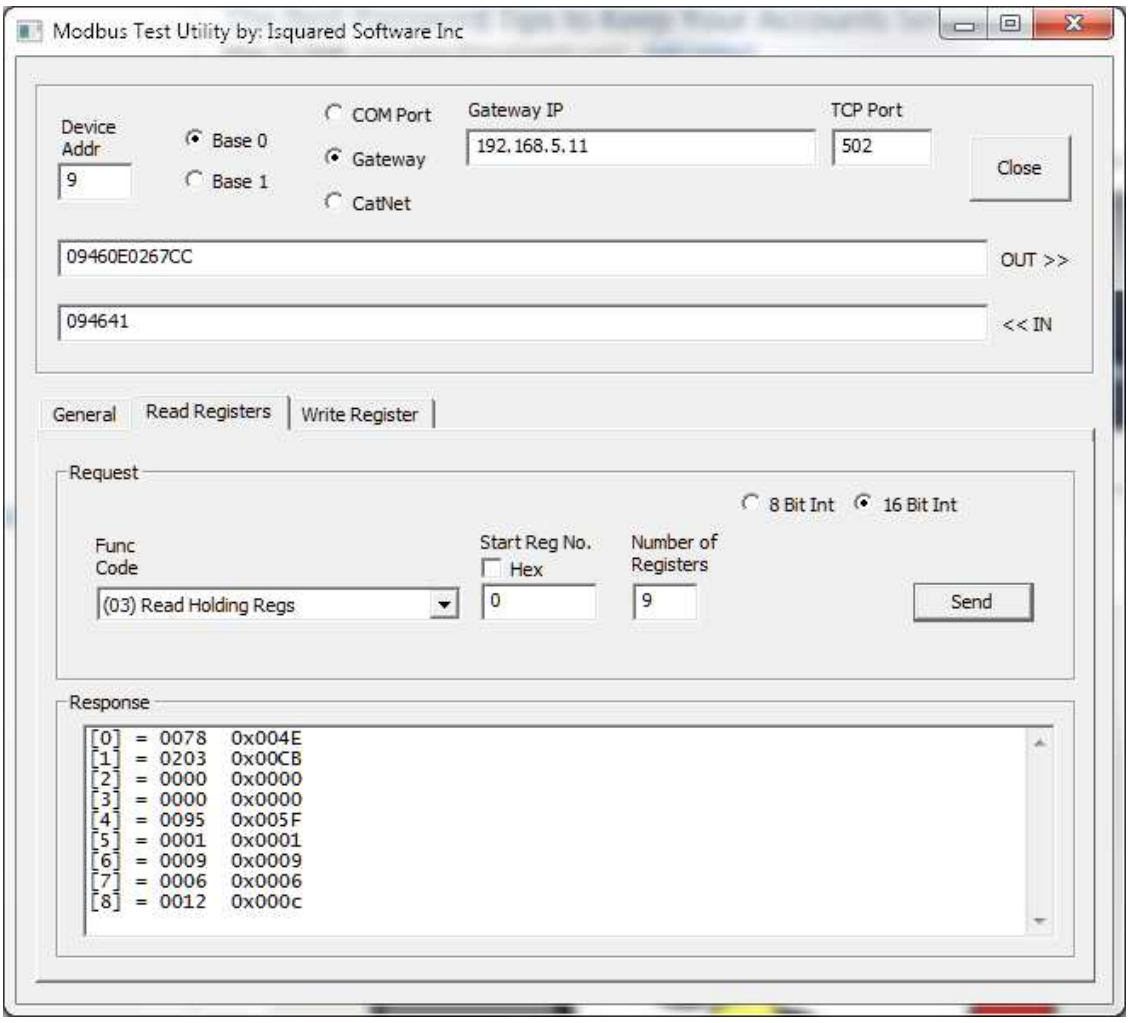
Changing a device's internal hardware revision number.
22-Jan-12

The following describes how to change a device's internal hardware revision number on a Tstat5, Tstat6, or T3 device. It is assumed that the device's firmware has been flashed with a ControlCore firmware version 1.62 or later. The procedure uses a Modbus utility software called WINMB. WINMB is part of the ControlCore installation software, it should be located in the ControlCore installation directory, WINMB.exe.

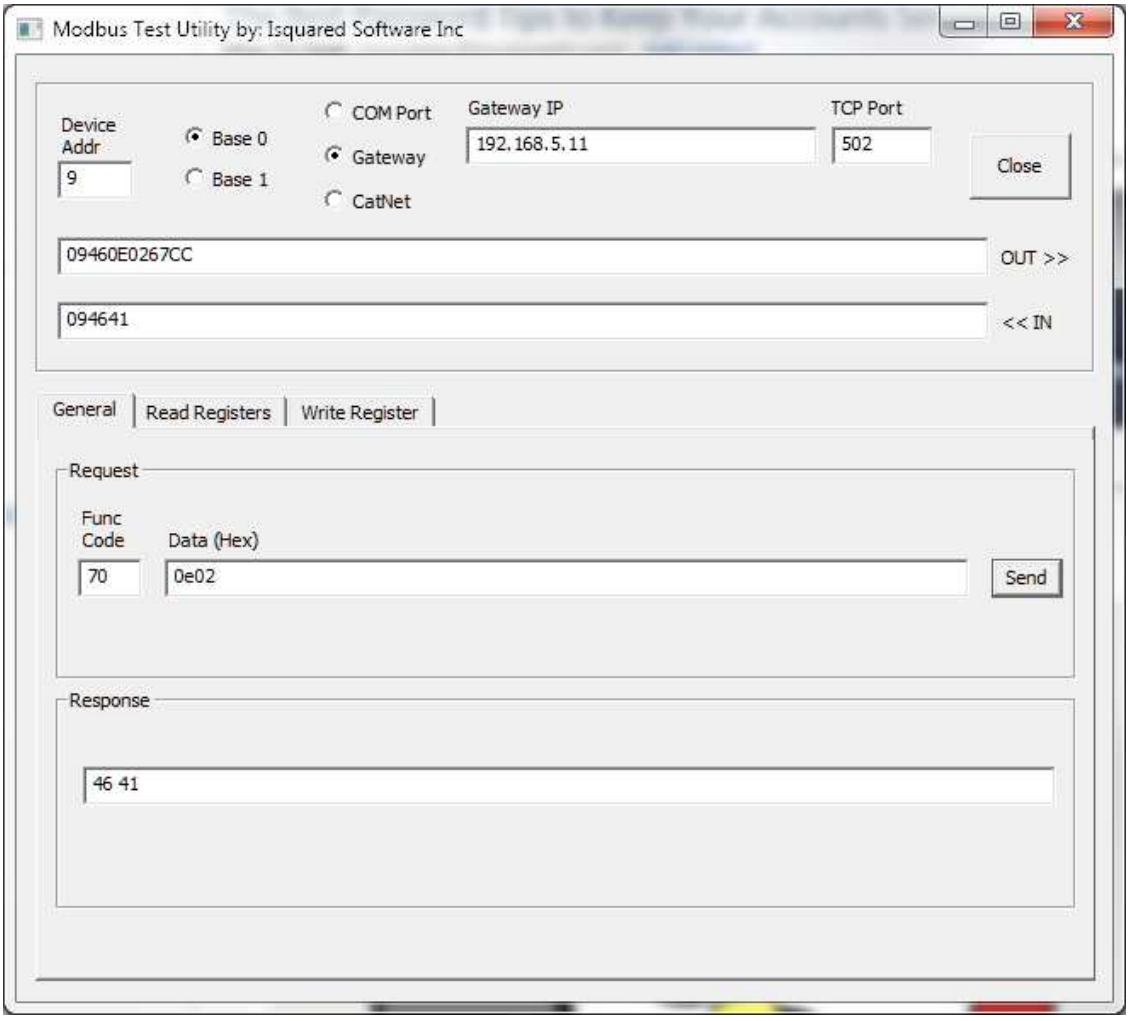
Step 1, Read current value

Start the WINMB utility and set the device address and communication parameters. Then select the second tab "Read Registers" with Function Code "(03) Read Holding Regs", Start Reg No. "0", and Number of Registers set to "9" then press the "Send" button. In the "Response" field you should see a list of register values, the last one, [8], is the device's internal hardware revision number. See below.



Step 2, Enable R/W for hardware registers

Select first tab "General" on WINMB. Set the Function Code to "70", and the "Data (Hex) to "0e02", then press the "Send" button. In the "Response" field you should see an acknowledge code "46 41". This will unlock the device to allow writing to hardware registers. It will remain unlocked until the device is reset.



Step 3, Set new value

Select the third tab "Write Register" on WINMB. Set the Function Code to "(06) Write Single Register", Register "8", and Value to the desired HW Rev number, then press the "Send" button. In the "Response" field you should see an acknowledge message indicating the value was set, example " [9] = 52 0x0034". Don't worry about the [9] in the response this is base '1' addressing.

Note that the HW Rev number "52" is required to signal a Tstat6 to use the new button arangement, (left down up right).