

Rockwell_Micro820_HMI043LM_42ATCS

V1.0 - Modbus RTU Rockwell Micro820

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Software HMI043WM-42ATCS
<p>The HMI-Project explains how to visualize data coming from modbus master. It shows how to send a value to the master, too.</p> <p>Very important is the modbus data mapping. It can be done with the help of an editor, which is found under "Tools->ModbusEditor" in the HMIDesigner.</p>

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The screenshot shows the 'Modbus Register Defines' window. The sidebar on the left contains icons for 'Holding', 'Input', 'Coil', and 'Discrete'. The main area displays a table of registers:

Register	Name	Data Type	HiByte	LoByte
1	Random float value (high word)	R_float	HiByte	LoByte
2	Random float value (low word)	R_float	HiByte	LoByte
3	Random integer value	R_integer	HiByte	LoByte
4	Analog read value	R_analog	HiByte	LoByte

At the bottom, there are radio buttons for 'Decimal' (selected) and 'Hex', and 'Add' and 'Remove' buttons.

To transfer a 32 bit float value, two modbus registers (Adress 1 & 2) are mapped to one floating point HMI-Register. Visualisation is done automatically with the help of automatic changing text labels and corresponding print function.

Hardware

Hardware setup
Rockwell Micro820 (2080-LC20-20QWB) is connected through RS485 with HMI043WM-42ATCS

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