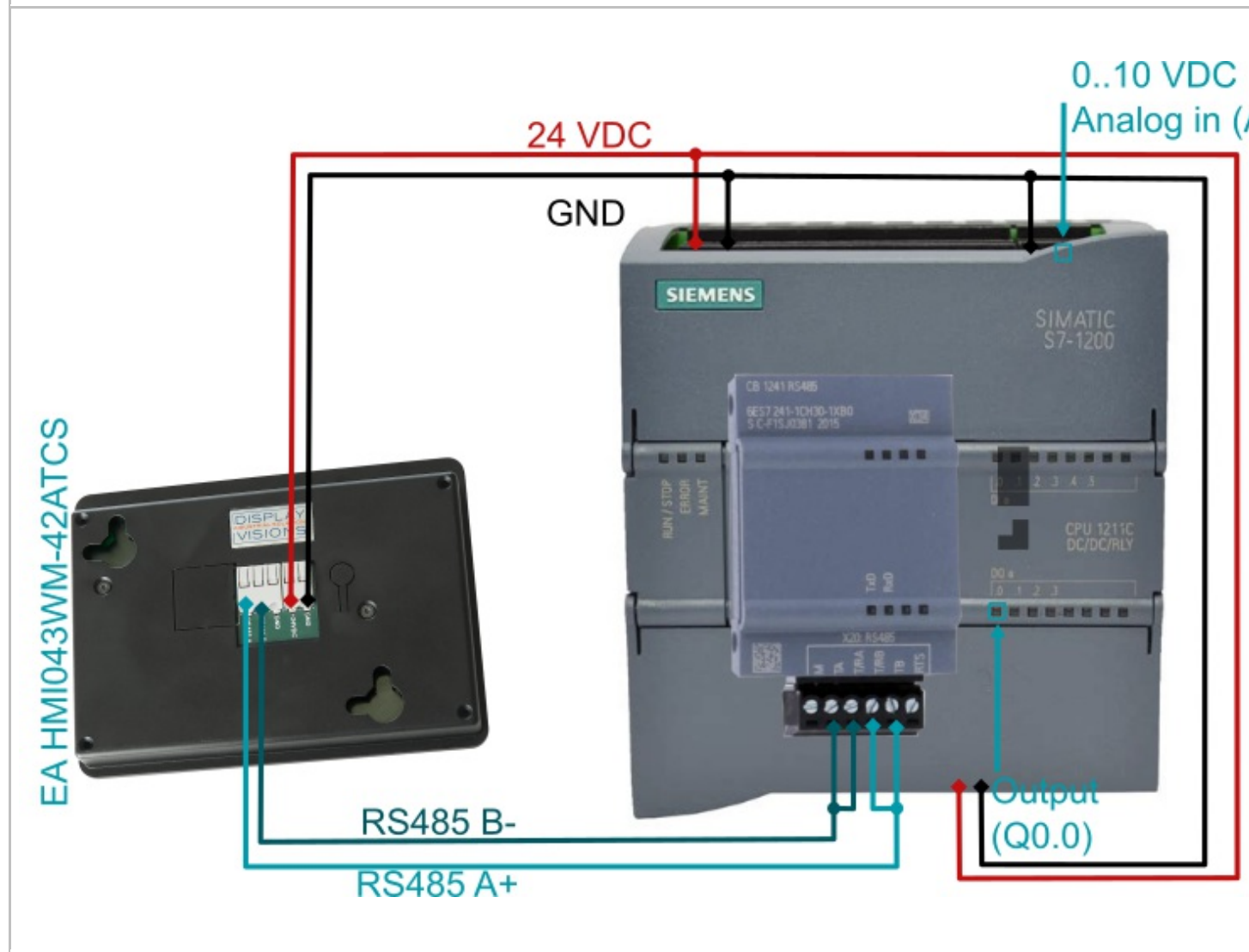


Siemens_Modbus

V1.0 - First release

Version	V1.0
Status	Approved
Created	29-Februar 2024 14:05
Last modified	21-März 2024 16:15
Modified by	jm

Hardware

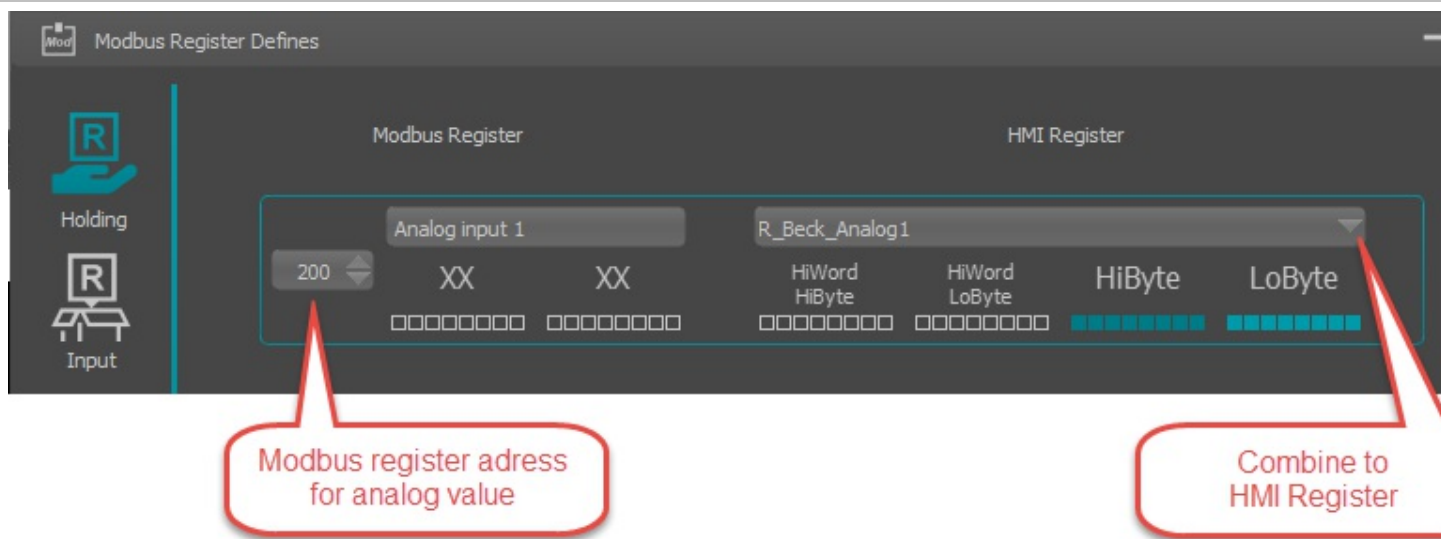


Software EA HMI043WM-42ATCS

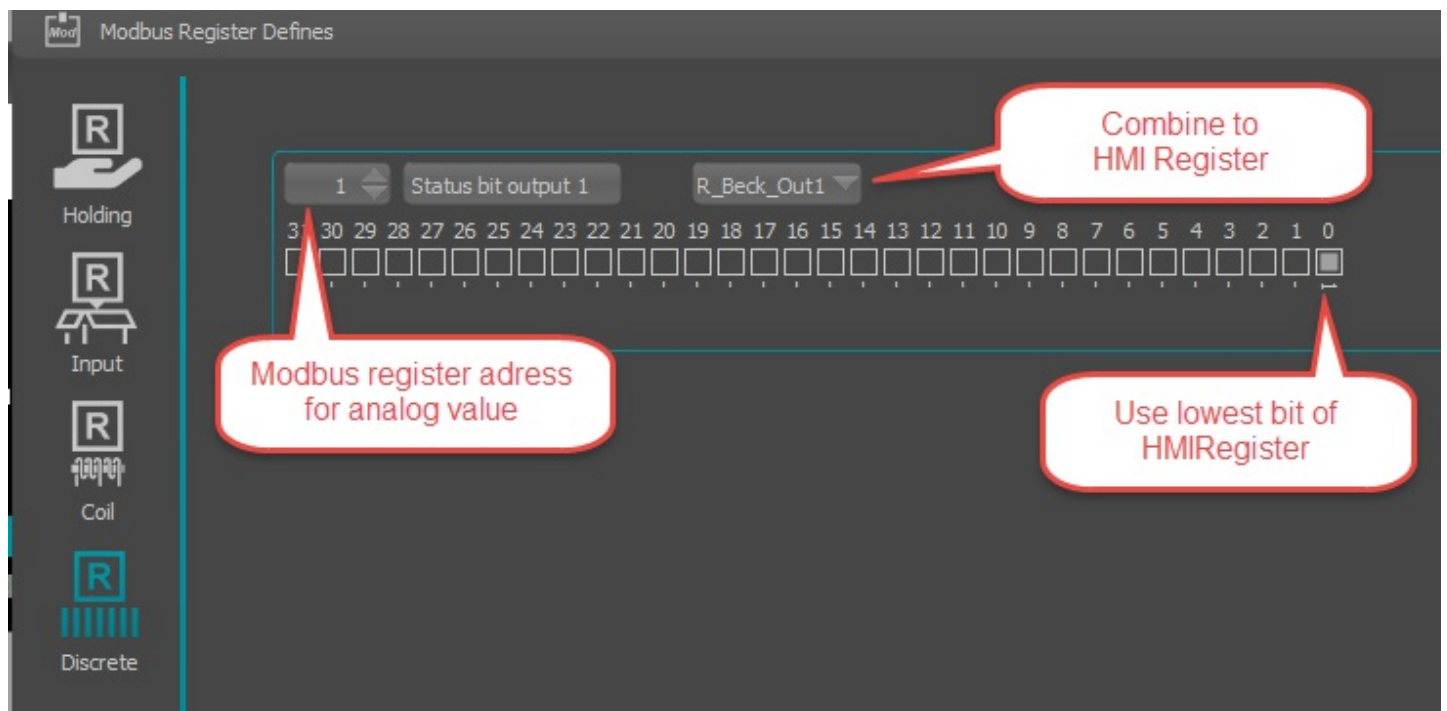
This HMI-Project explains how to visualize data coming from Modbus Master. It also shows how to send a value to the master.

Data mapping:
Analog value from modbus master to HMIRegister R_S7_Analog0

Siemens_Modbus



Single bit HMIRegister R_S7_Out0 to set an Output in Modbus Master (S7-1200)



Data usage:

R_S7_Analog0 holds raw signed 16 bit value of Beckhoff's analog input 1. The raw value is printed to an auto updating label. There is another label, w also updating on value change, but calculates the voltage from the digits. The bargraph visualizes the raw value as well.

R_S7_out0 changes in the Macro TM_S7out0, which is triggered by the switch bt_output

Software Siemens S7-1200

Please see Siemens project for details.

To summarize:

TIA projects initializes CB 1241 RS485 module to modbus (DB1: MB_COMM_LOAD).

It reads every 200ms slave's (EA HMI043WM-42ATCS) discrete modbus register from modbus data address 8.

The return value is directly mapped to output Q0.0.

On the other hand it sends to slave's holding register from modbus data address 200 the raw analog input 0 value.

Siemens_Modbus
