Arduino_Opta_WiFi

V1.0 - modbus RTU Arduino Opta

Version	V1.0
Status	Under development
Created	18-Februar 2025 10:38
Last modified	21-Februar 2025 11:11
Modified by	ladmin

Software

The EA HMI display visualizes data send from the Arduino OPTA.
To exchange data through modbus, values need to map to registers:
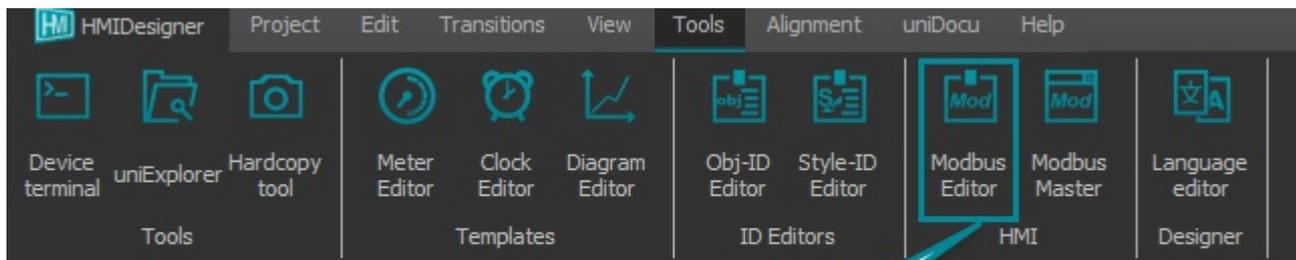
Inside the Modbus Editor Registers can be build and be assigned.
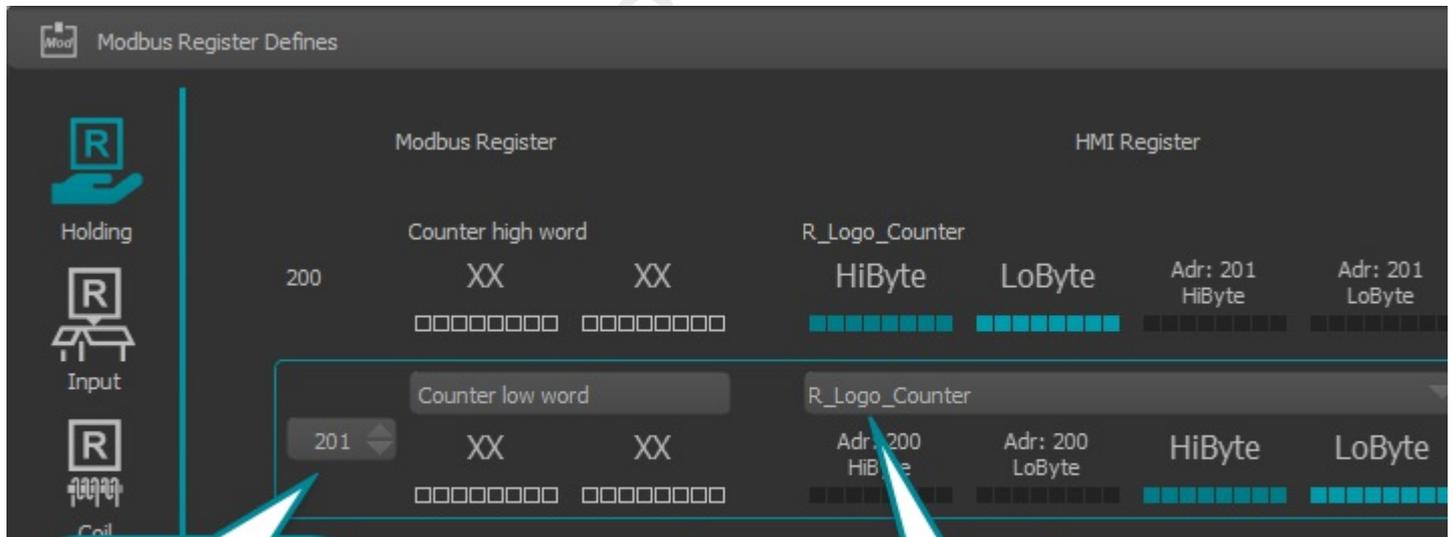
Data ussage:
The data, from the Arduino OPTA, is display directly on the HMI display

Hardware

created by: Aiven Wolf
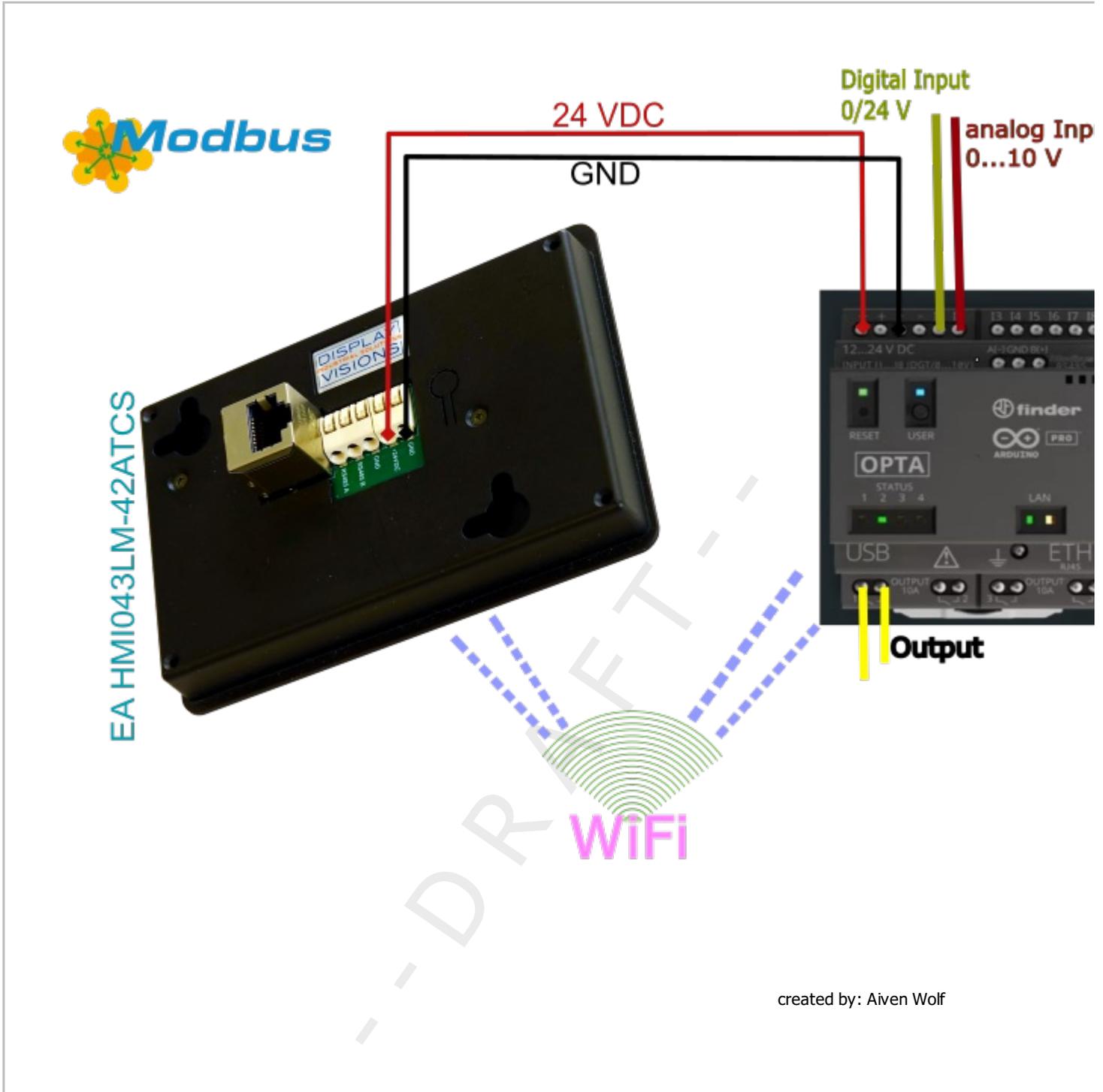
Modbus connection
Modbus connection monitoring: The system checks in certain intervals whether data has ben received via Modbus.

Software Arduino Opta
Arduino IDE 2.3.4. please see Arduino IDE for more detail used devises: Arduino OPTA (finder) EA HMI display Included librarys: ArduinoModbus, by Arduino

Arduino_Opta_WiFi

WiFi
SPI
Ethernet

Baudrate = 115200
Modbus adress = 42

The display is setup as modbus slave (server)
The Arduino OPTA is setup as modbus Master (Client)

The Arduino OPTA reads digital data and sends data to display and lights LED.
The display shows data and checks connection to Arduino.

created by: Aiven Wolf