Arduino_Opta

## V1.0 - modbus RTU Arduino Opta

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

| Hardware |
|---|
| |
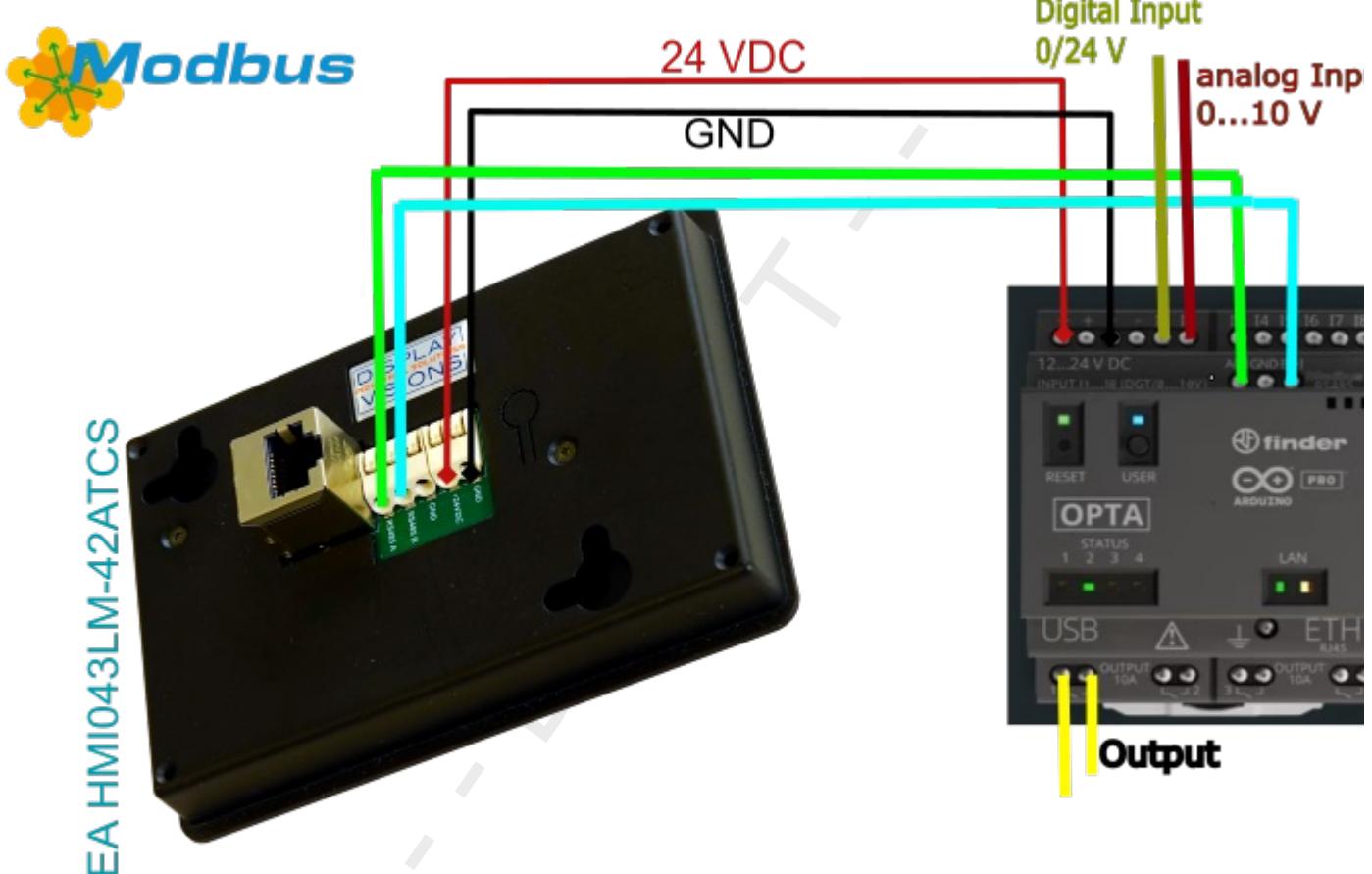
Software
The EA HMI display visualizes data send from the Arduino OPTA. To exchange data through modbus, values need to map to registers:

Arduino_Opta
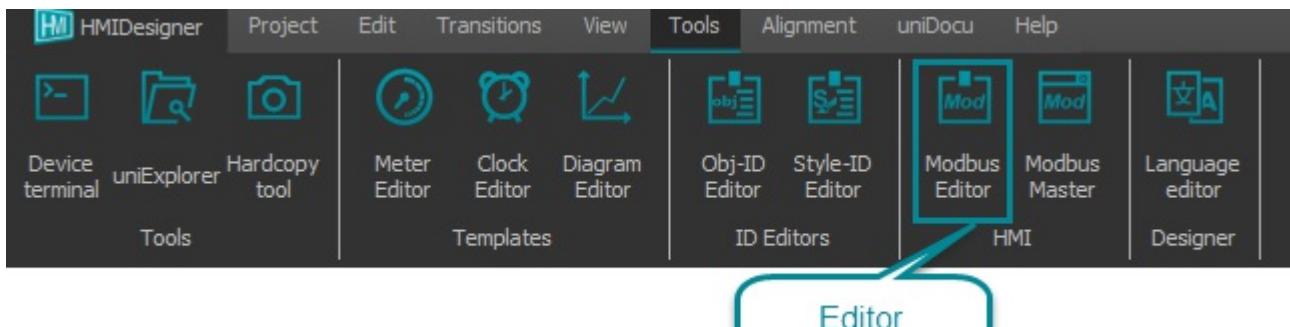
Inside the Modbus Editor Registers can be build and be assigned.
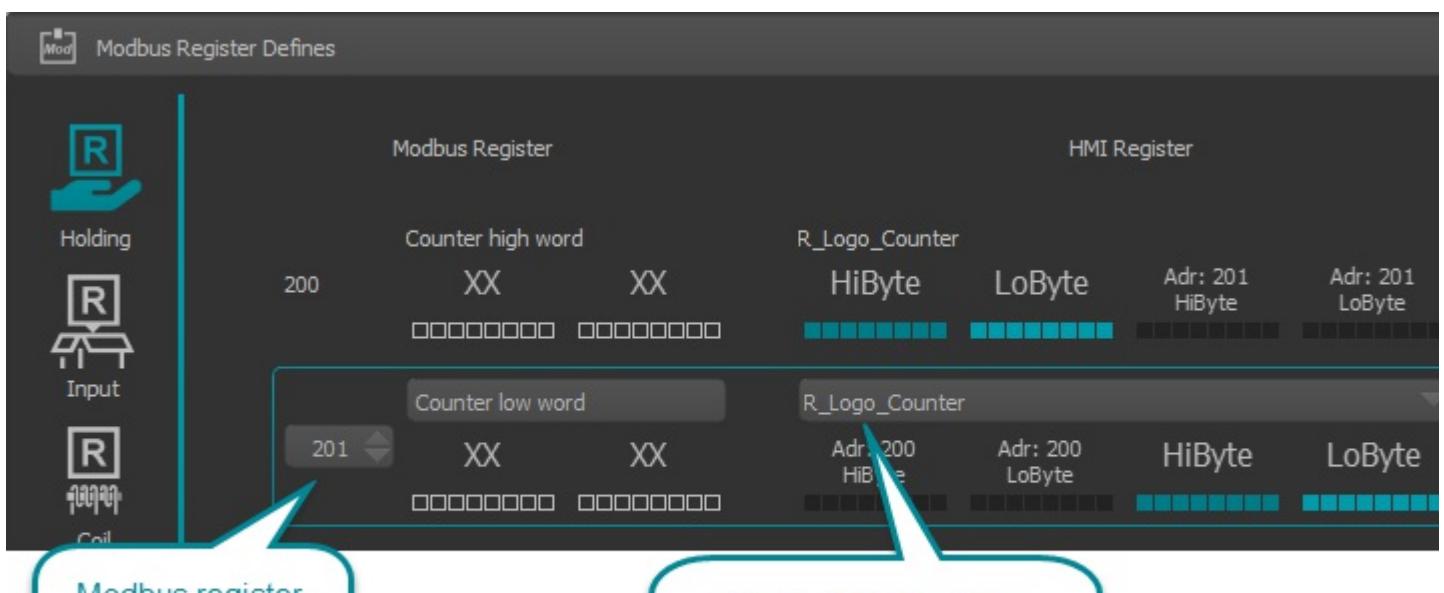
Data ussage:
The data, from the Arduino OPTA, is display directly on the HMI display

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 details. Used devices: Arduino OPTA (finder)

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EA HMI043WM-42ATCS display

Included librarys to Arduino IDE:
ArduinoModbus, by Arduino
ArduinoRS485, by Arduino

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

Interface setup EA HMI-Module:
Baudrate = 115200
Modbus adress = 42

The Arduino OPTA reads a digital input and analog input and sends data to display. It also sets an output, depending on user input through HMI-Module.
The display shows data and checks connection to Arduino.

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