Inhoud

Temperature and Humidity Sensor Modbus RTU, FG6485A - Antratek Electronics
FG6485A

1. Modbus RTU

De temperature sensor is connected through Modbus RTU.
The Modbus RTU installation requires a RS UNI component, for which the installation is shown below.

Communication module - AXL F RS UNI 1H - 2688666
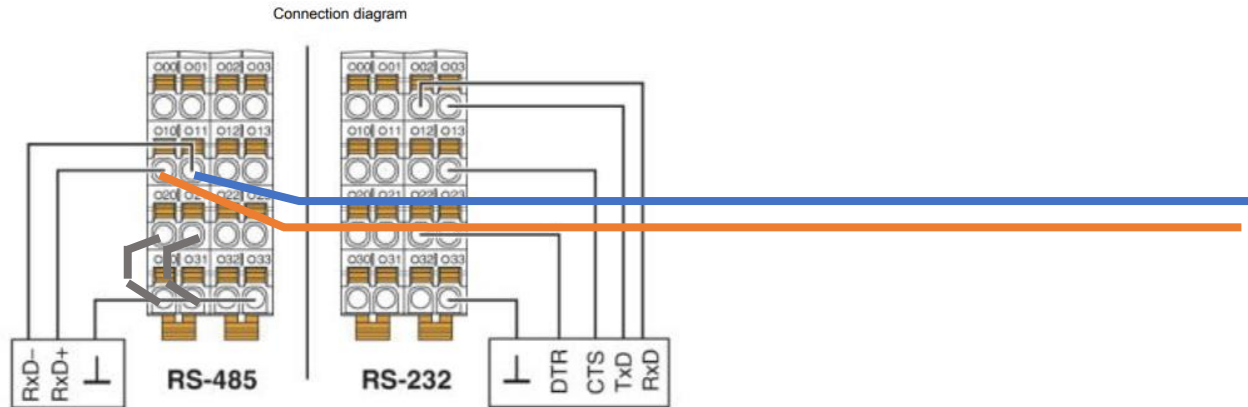
- Connect shielded 2 wire between Oliva Flexbox Uni block and 1st temperature sensor (TS)
  (Uni 010 RxD+ to TS 21), (Uni 011 RxD- to TS 22)
- Termination resistor is at the UNI block by connecting 020 - 030 and 021 – 031

Oliva Energy Flexbox
Connect Temperature sensor to FlexBox "UNI" block
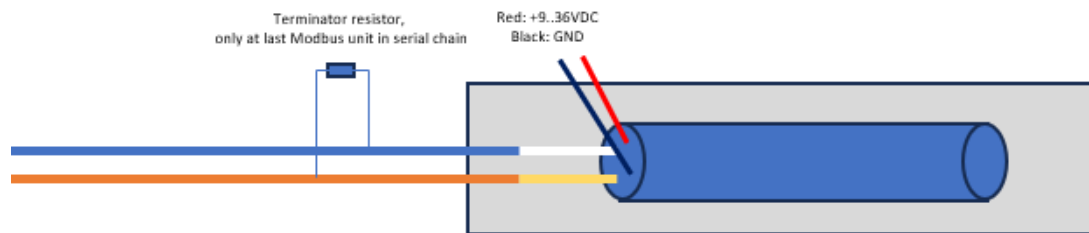
- Setting the temperature sensor Modbus RTU
  - Open sensor behind the head
  - Set the dipswitches to the address, standard is 10 +1 for each temperature sensor

- Switch 1 has a value of 1
- Switch 2 has a value of 2
- Switch 3 has a value of 4
- Switch 4 has a value of 8
- Switch 5 has a value of 16
- Switch 6 has a value of 32
- Switch 7 has a value of 64
- Switch 8 has a value of 128

3. Configuration

Configuration off a interface with the Oliva Flexbox will be done in the config file. The program Win SCP is necessary and the manual can be found on the portal.

In the config file, change the parameters which is shown below.

- Device ID are following up on each other
- Device type is filled in on powermeter
- Manufacturer is -
- Adress is where you fill in the address + 1 for each
- Port remains 0
- Protocol is Modbus RTU
- To activate the interface, set in use to TRUE

```
"temperature": {
    "device_id": [0,1,2,3,4,5,6,7,8,9],
    "device_type": "tempsensor",
    "manufacturer": "",
    "address": [10, 11, 0, 0, 0, 0, 0, 0, 0, 0],
    "port": 0,
    "protocol": "modbus_rtu",
    "in_use": "FALSE"
```

4. Final check

After the configuration has been done, log in into the HMI and check the Acrel 3Ph page to see if the data is showing in the portal. If data is showing, the interface is installed correctly.

Sensors: Temperature meters