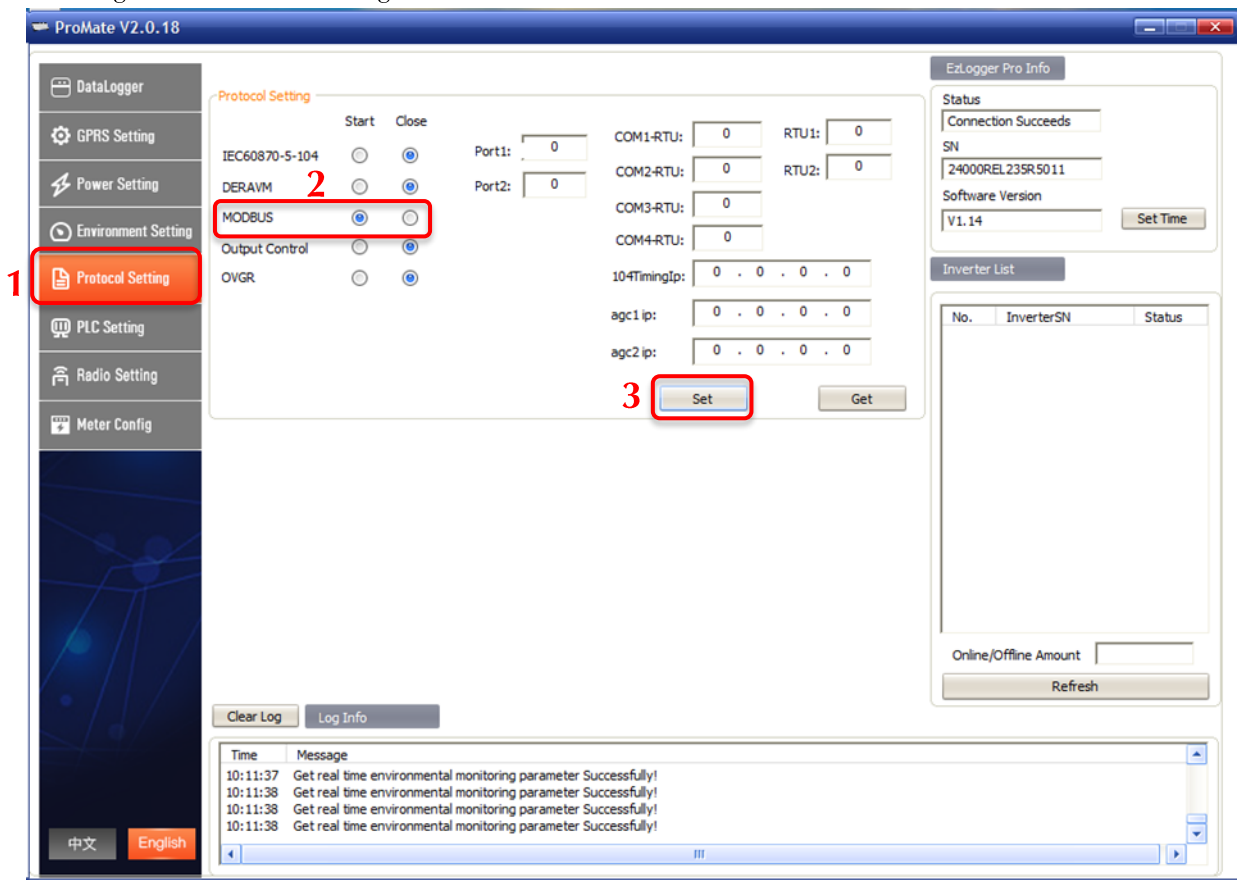


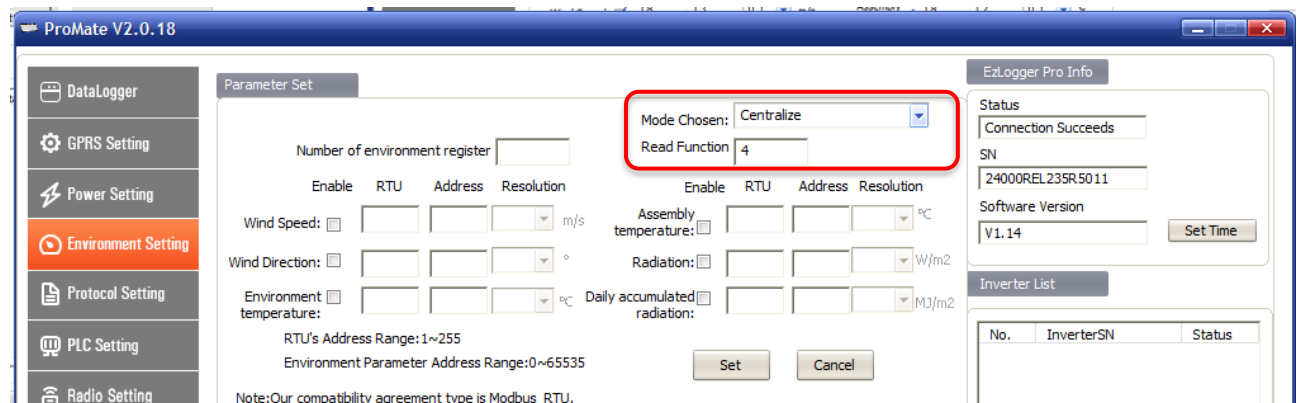
Goodwe EzLogger Pro – EMI Settings for Si-RS485... and Tx-RS485... Sensors

- ✓ Sensors can only be connected to **COM4** of the Ezlogger Pro. All sensors must have a unique Modbus ID/address but same Data Format (baud rate, parity and stop bit). Changes can be done with the Si-Modbus configurator (download from www.imt-solar.de).
- ✓ This document applies to all sensors with firmware version 1.53 or greater (see sensor label for firmware version).
- ✓ The default Modbus **address** is **1**, individual settings are on the backside of the sensor.

1. Login to the your EzLogger Pro user interface.
2. Navigate to “Protocol Setting” click “Start” next to the Modbus Protocol and hit “Set”.



3. Under the “Environment Setting” tab, you can configure the Modbus Input registers according to the connected sensor type. Choose Mode “Centralize” and Read Function “4” for all sensor types.



- Change the following data according to the sensor type connected, whereas "Address" has to be understood as Modbus register and "RTU" as Modbus ID, click "Set" after all entries are made:

! The cell temperature is a roughly approximation for the PV module temperature when using address 7.

Si-RS485TC-T-MB



PV module temperature ≈ Cell temperature

Parameter Set

Mode Chosen: Centralize

Read Function: 4

Number of environment register: 2

	Enable	RTU	Address	Resolution	Unit
Wind Speed:	<input type="checkbox"/>				m/s
Wind Direction:	<input type="checkbox"/>				°
Environment temperature:	<input type="checkbox"/>				°C

	Enable	RTU	Address	Resolution	Unit
Assembly temperature:	<input checked="" type="checkbox"/>	8	7	0.1	°C
Radiation:	<input checked="" type="checkbox"/>	8	0	1	W/m2
Daily accumulated radiation:	<input type="checkbox"/>				MJ/m2

RTU's Address Range: 1~255
Environment Parameter Address Range: 0~65535

Note: Our compatibility agreement type is Modbus_RTU.

Set Cancel

Si-RS485TC-2T -MB



PV module temperature ≈ Cell temperature

Parameter Set

Mode Chosen: Centralize

Read Function: 4

Number of environment register: 3

	Enable	RTU	Address	Resolution	Unit
Wind Speed:	<input type="checkbox"/>				m/s
Wind Direction:	<input type="checkbox"/>				°
Environment temperature:	<input checked="" type="checkbox"/>	8	8	0.1	°C

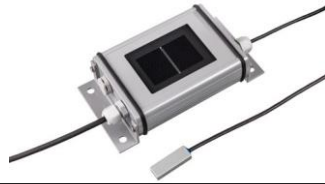
	Enable	RTU	Address	Resolution	Unit
Assembly temperature:	<input checked="" type="checkbox"/>	8	7	0.1	°C
Radiation:	<input checked="" type="checkbox"/>	8	0	1	W/m2
Daily accumulated radiation:	<input type="checkbox"/>				MJ/m2

RTU's Address Range: 1~255
Environment Parameter Address Range: 0~65535

Note: Our compatibility agreement type is Modbus_RTU.

Set Cancel

Si-RS485TC-T-Tm-MB



Parameter Set				
Number of environment register: <input type="text" value="2"/>			Mode Chosen: <input type="text" value="Centralize"/>	
Read Function: <input type="text" value="4"/>				
Enable	RTU	Address	Resolution	
Wind Speed: <input type="checkbox"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	m/s
Wind Direction: <input type="checkbox"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	°
Environment temperature: <input type="checkbox"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	°C
RTU's Address Range: 1~255				
Environment Parameter Address Range: 0~65535				
<input type="button" value="Set"/> <input type="button" value="Cancel"/>				
Note: Our compatibility agreement type is Modbus_RTU.				

Si-RS485TC-2T-v-MB + Tamb-Si + Vwind-Si

PV module temperature ≈ Cell temperature



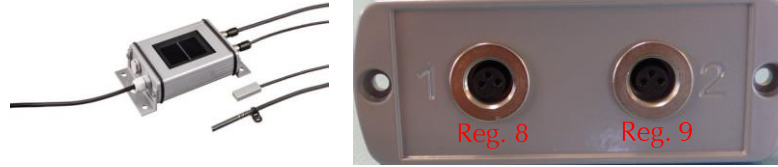
Parameter Set				
Number of environment register: <input type="text" value="4"/>			Mode Chosen: <input type="text" value="Centralize"/>	
Read Function: <input type="text" value="4"/>				
Enable	RTU	Address	Resolution	
Wind Speed: <input checked="" type="checkbox"/>	<input type="text" value="8"/>	<input type="text" value="3"/>	<input type="text" value="0.1"/>	m/s
Wind Direction: <input type="checkbox"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	°
Environment temperature: <input checked="" type="checkbox"/>	<input type="text" value="8"/>	<input type="text" value="8"/>	<input type="text" value="0.1"/>	°C
RTU's Address Range: 1~255				
Environment Parameter Address Range: 0~65535				
<input type="button" value="Set"/> <input type="button" value="Cancel"/>				
Note: Our compatibility agreement type is Modbus_RTU.				

Si-RS485TC-2T-v-MB + Tmodul-Si + Vwind-Si



Parameter Set				
Number of environment register: <input type="text" value="3"/>			Mode Chosen: <input type="text" value="Centralize"/>	
Read Function: <input type="text" value="4"/>				
Enable	RTU	Address	Resolution	
Wind Speed: <input checked="" type="checkbox"/>	<input type="text" value="8"/>	<input type="text" value="3"/>	<input type="text" value="0.1"/>	m/s
Wind Direction: <input type="checkbox"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	°
Environment temperature: <input type="checkbox"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	°C
RTU's Address Range: 1~255				
Environment Parameter Address Range: 0~65535				
<input type="button" value="Set"/> <input type="button" value="Cancel"/>				
Note: Our compatibility agreement type is Modbus_RTU.				

Si-RS485TC-3T-MB



For Tmodul-Si connected to socket 1 and Tamb-Si connected to socket 2:

Parameter Set				Mode Chosen: Centralize			
Number of environment register: 3				Read Function: 4			
Enable	RTU	Address	Resolution	Enable	RTU	Address	Resolution
Wind Speed: <input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/> m/s	Assembly temperature: <input checked="" type="checkbox"/>	8	8	0.1 °C
Wind Direction: <input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/> °	Radiation: <input checked="" type="checkbox"/>	8	0	1 W/m2
Environment temperature: <input checked="" type="checkbox"/>		8	9	Daily accumulated radiation: <input type="checkbox"/>			<input type="text"/> MJ/m2
RTU's Address Range: 1~255				Environment Parameter Address Range: 0~65535			
				Set Cancel			
Note: Our compatibility agreement type is Modbus_RTU.							

For Tmodul-Si connected to socket 2 and Tamb-Si connected to socket 1:

Parameter Set				Mode Chosen: Centralize			
Number of environment register: 3				Read Function: 4			
Enable	RTU	Address	Resolution	Enable	RTU	Address	Resolution
Wind Speed: <input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/> m/s	Assembly temperature: <input checked="" type="checkbox"/>	8	9	0.1 °C
Wind Direction: <input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/> °	Radiation: <input checked="" type="checkbox"/>	8	0	1 W/m2
Environment temperature: <input checked="" type="checkbox"/>		8	8	Daily accumulated radiation: <input type="checkbox"/>			<input type="text"/> MJ/m2
RTU's Address Range: 1~255				Environment Parameter Address Range: 0~65535			
				Set Cancel			
Note: Our compatibility agreement type is Modbus_RTU.							

Ta-ext-RS485-MB



Parameter Set

Mode Chosen: Centralize

Read Function: 4

Number of environment register: 1

Enable	RTU	Address	Resolution	Unit
<input type="checkbox"/>				m/s
<input type="checkbox"/>				°
<input checked="" type="checkbox"/>	8	8	0.1	°C

Enable	RTU	Address	Resolution	Unit
<input type="checkbox"/>				°C
<input type="checkbox"/>				W/m ²
<input type="checkbox"/>				MJ/m ²

RTU's Address Range: 1~255
Environment Parameter Address Range: 0~65535

Note: Our compatibility agreement type is Modbus_RTU.

Set Cancel

Tm-RS485-MB



Parameter Set

Mode Chosen: Centralize

Read Function: 4

Number of environment register: 1

Enable	RTU	Address	Resolution	Unit
<input type="checkbox"/>				m/s
<input type="checkbox"/>				°
<input type="checkbox"/>				°C

Enable	RTU	Address	Resolution	Unit
<input checked="" type="checkbox"/>	8	7	0.1	°C
<input type="checkbox"/>				W/m ²
<input type="checkbox"/>				MJ/m ²

RTU's Address Range: 1~255
Environment Parameter Address Range: 0~65535

Note: Our compatibility agreement type is Modbus_RTU.

Set Cancel

- Test communication with the sensor by clicking on "Read". Measurements will appear on the Real Time Data box.

Meter Config

Real Time Data

Wind Speed:	0.0 m/s	Assembly temperature:	25.2 °C	Wind Direction:	0 °
Radiation:	20.7 W/m ²	Environment temperature:	0.0 °C	Daily accumulated radiation:	1.377 MJ/m ²

Read