



SOLAR RELAY

INVERTER CONTROL
with
FRONIUS PRIMO



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IMPORTANT



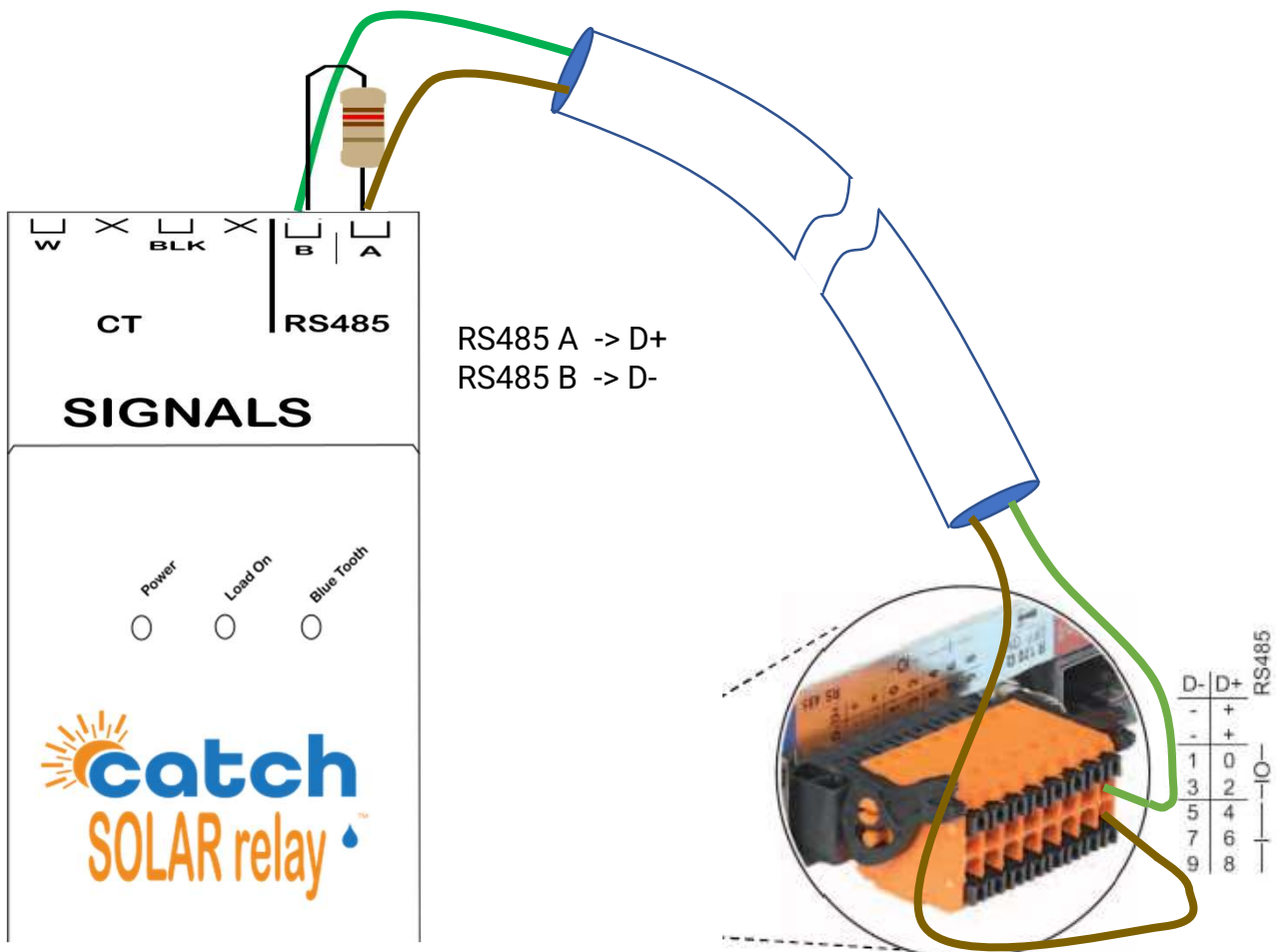
This guide discusses the specific wiring and configuration need to implement inverter control. Ensure the installation guide for both products is also followed.

Wiring Instructions

Ensure the data cable is rated for the voltages it will be in close proximity to.

A 120 Ohm terminating resistor may be required at the CATCH Relay terminals as shown in the diagram below if the cable run is longer than 10m.

Connect the RS485 Cable to the Fronius Data Manager 2 as shown.



SOLAR RELAY Setup

Navigate to the Configuration page and, under the Modbus configuration, set the parameters as shown, selecting the Fronius energy meter option.

Modbus/Inverter Configuration

Emulated Meter

FRONIUS

Cluster Export Limit

0

Modbus Device ID

1

Modbus Baud Rate

9600

Modbus Stopbits

1

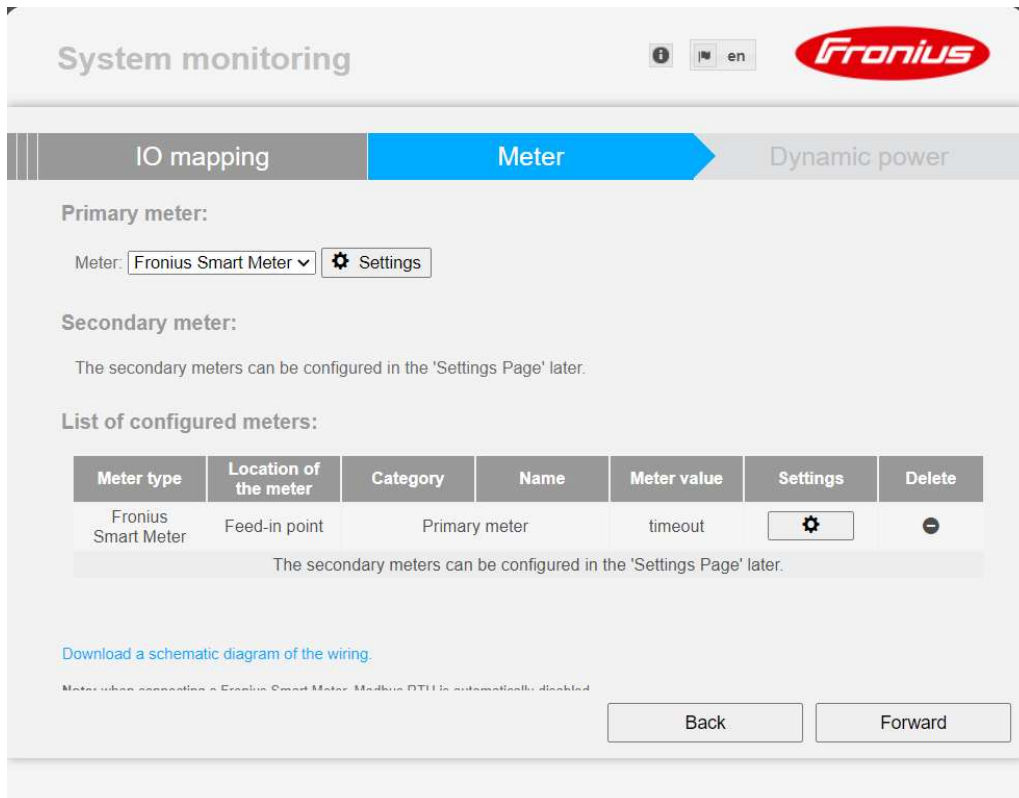
Modbus Parity

None



Inverter Setup

Setup the Inverter for export control exactly the same way you do with a regular Fronius Smart Meter.

1. Connect to the Web Configuration UI (<http://192.168.250.181>) and run the Technical Wizard.
2. When you get to the Meter setup enter the details as shown below.



The screenshot shows the 'System monitoring' web interface with the 'Meter' tab selected. The 'Primary meter' section has a dropdown menu set to 'Fronius Smart Meter' and a 'Settings' button. The 'Secondary meter' section has a message: 'The secondary meters can be configured in the 'Settings Page' later.' Below this is a 'List of configured meters' table.


Meter type	Location of the meter	Category	Name	Meter value	Settings	Delete
Fronius Smart Meter	Feed-in point	Primary meter		timeout		

Below the table, there is a message: 'The secondary meters can be configured in the 'Settings Page' later.'

At the bottom, there is a link: 'Download a schematic diagram of the wiring.' and a note: 'Meter when connecting a Fronius Smart Meter, Modbus RTU is automatically disabled.'

Navigation buttons 'Back' and 'Forward' are at the bottom right.

Inverter Setup

System monitoring en 

IO mapping Meter **Dynamic power**

Dynamic power reduction

Power limit: ☐ No limit ☒ limit for entire system

total DC power of the system: Wp

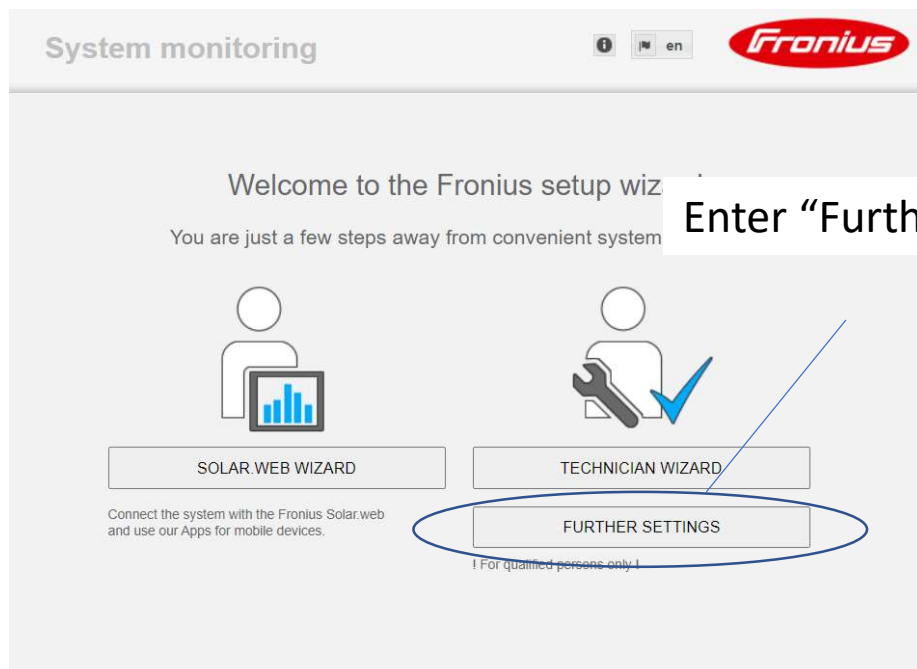
Maximum grid feed-in power %

☒ Reduce inverter power to 0% if meter connection has been lost

Back Forward

Change these to suite
your requirements


Inverter Setup



Inverter Setup

1. Click On the Meter Tab

2. Click On "Settings"

System monitoring en 

Settings

GENERAL
PASSWORDS
FRONIUS SENSOR CARDS
ENERGY MANAGEMENT
PUSH SERVICE
MODBUS
METER
DNO EDITOR
SOLAR.WEB WIZARD

Meter settings

Primary meter:
Meter: Fronius Smart Meter Settings

Secondary meter:
Meter: None selected + Add

List of configured meters:

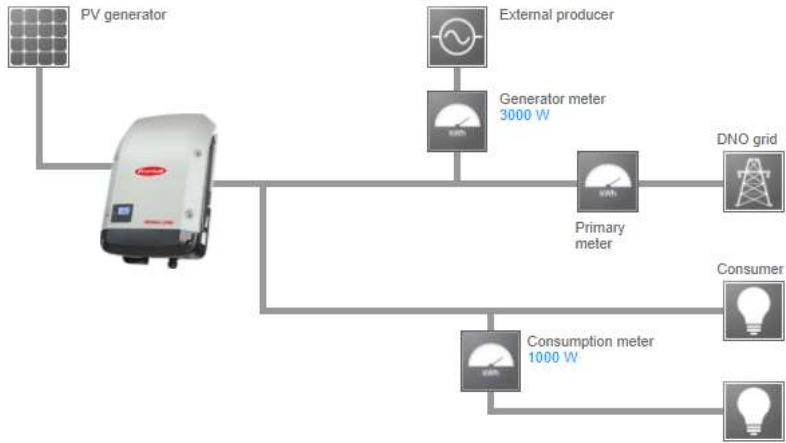
Meter type	Location of the meter	Category	Name	Meter value	Settings	Delete
Fronius Smart Meter	Feed-in point	Primary meter		searching	Settings	Delete

[Download a schematic diagram of the wiring.](#)

Note: when connecting a Fronius Smart Meter, Modbus RTU is automatically disabled.

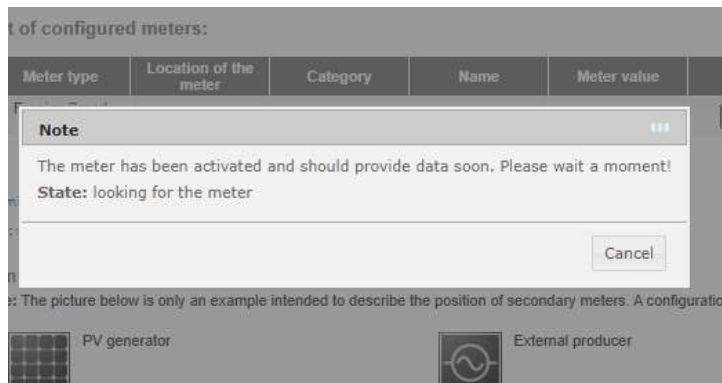
Configuration positions

Note: The picture below is only an example intended to describe the position of secondary meters. A configuration is not possible here.



Inverter Setup

A message will appear as shown below. This will happen until the inverter has connected to the meter.



Once the inverter has successfully connected to the Solar Relay you will see this message.

