

SOLAR RELAY

INVERTER CONTROL with FRONIUS PRIMO / GEN 24





CATCH Power
A trademark of Project H Pty Ltd
180 Dumaresq Street
Glen Innes
NSW 2370
Australia

Ph: +64 2 5700 5717 W: www.Catchpower.com.au

E: sales@catchpower.com.au







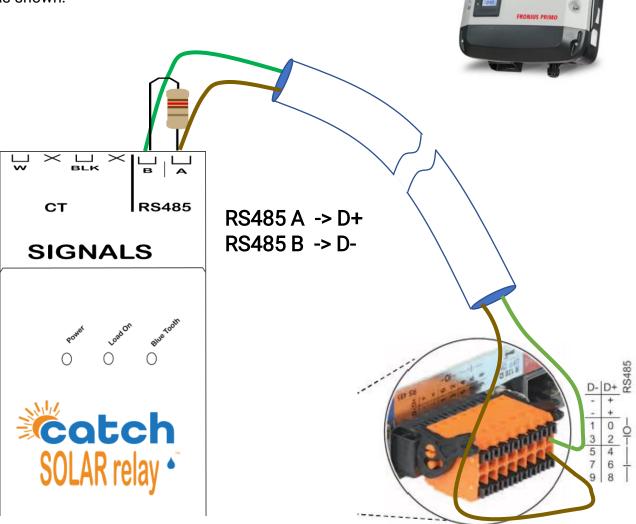
This guide discusses the specific wiring and configuration need to implement inverter control. Ensure the installation guide for both products is also followed.

Wiring Instructions – FRONIUS PRIMO

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.









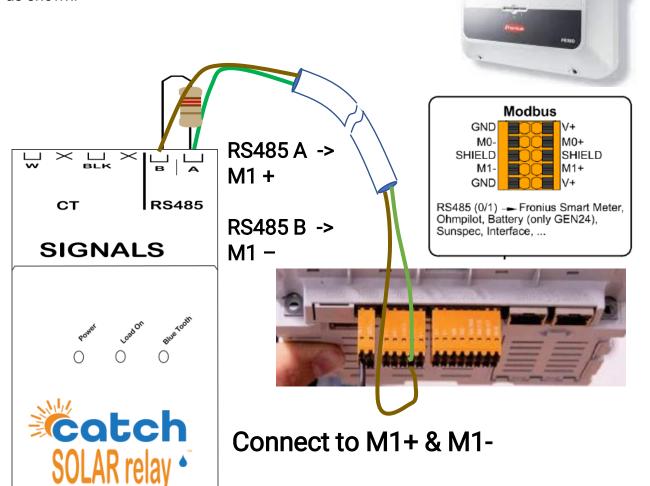
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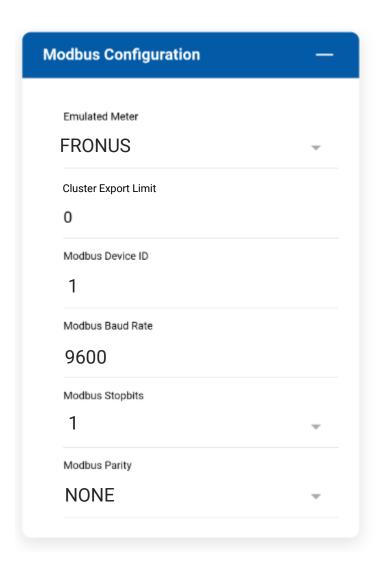




SOLAR RELAY Setup

Navigate to the Configuration screen and expand the Modbus Configuration section. Fill it out using the details below.

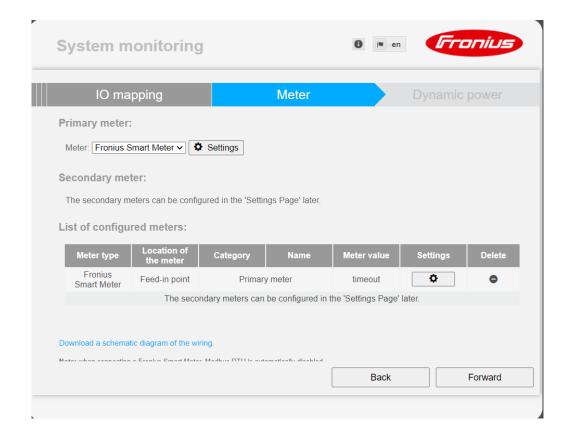
Save your changes.



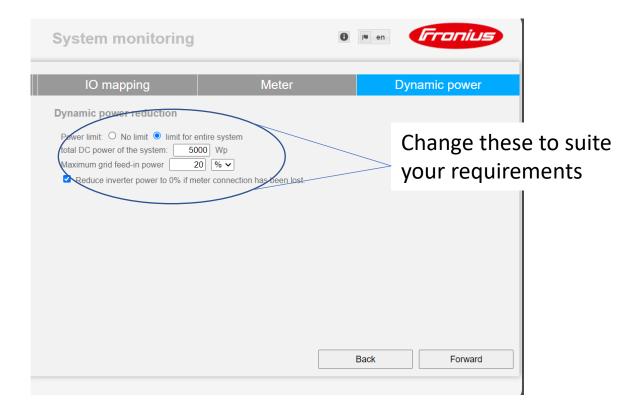


Setup the Inverter for export control exactly the same way you do with a regular Fronius Smart Meter.

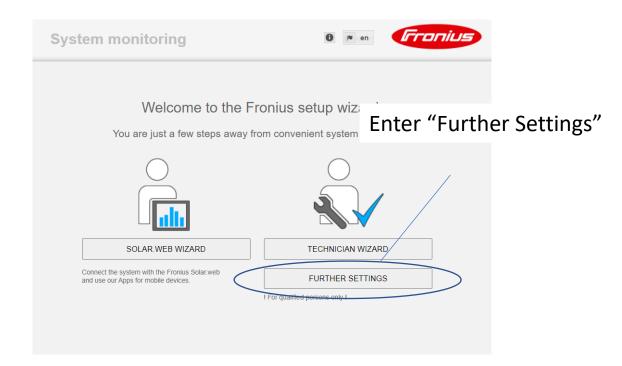
- 1. Connect to the Web Configuration UI (http://192.168.250.181) and run the Technical Wizard.
- 2. When you get to the Meter setup enter the details as shown below.





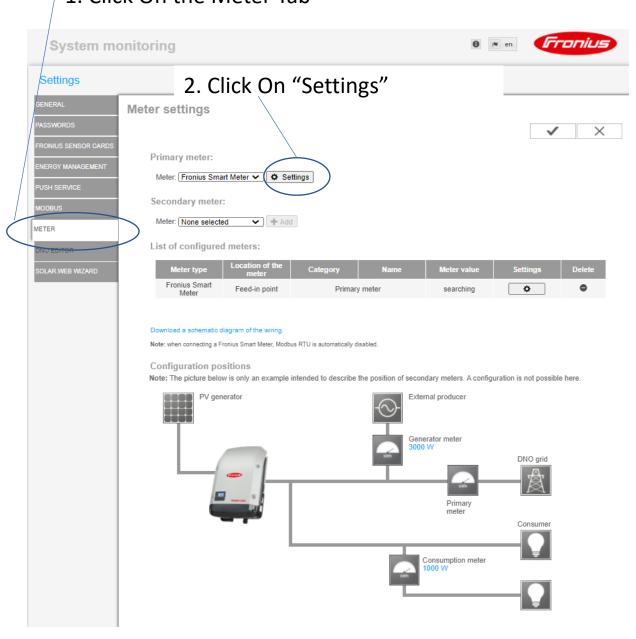






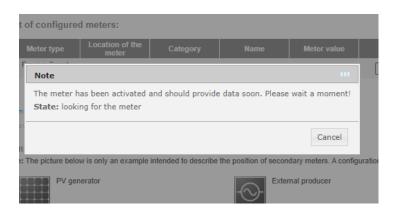


1. Click On the Meter Tab

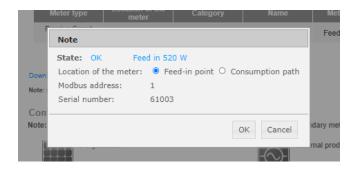




A message will appear as shown below. This will happen until the inverter has connected to the meter.



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

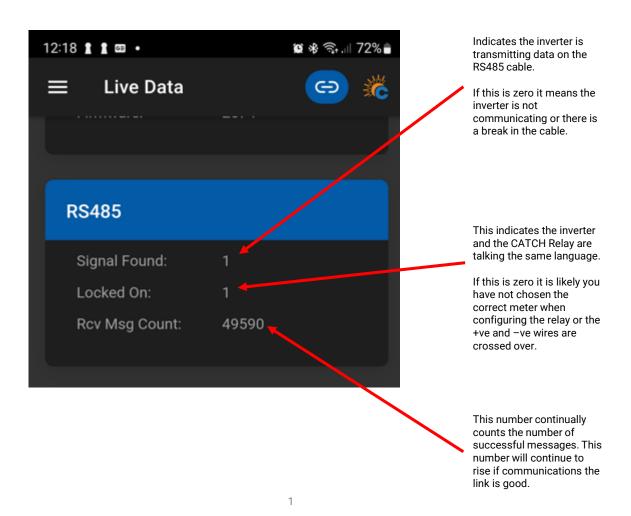




Checking the status of the RS485 interface

Within the CATCH Power app if you navigate to the bottom of the Live Data screen you will see something similar to the screen below.

The RS485 Status Can be used to confirm correct operation



THE FOLLOWING ONLY NEEDS
TO BE FOLLOWED IF YOU ARE ENABLING
DYNAMIC / FLEXIBLE EXPORTS

DYNAMIC / FLEXIBLE EXPORT CONTROL



RTU Control

DYNAMIC / FLEXIBLE Export Control



NO NATIVE MONITORING

If you choose to use RTU Control for this inverter, the Solar.Web platform will not work



DYNAMIC / FLEXIBLE EXPORT CONTRO

NO BATTERIES

RTU Control cannot be used on Hybrid inverters that have a battery connected.

Set the Soft Export Limit to ZERO

The true export limit will be fed to the inverter via the Dynamic /Flexible Exports program. Regardless of what you have been told the export limit is SET IT TO ZERO.

• Set the Hard Export Limit (if required)

COMPLETE



SUNSPEC Control

DYNAMIC / FLEXIBLE Export Control

GEN24 setup via solar.start app

1. Set the Export limit to ZERO

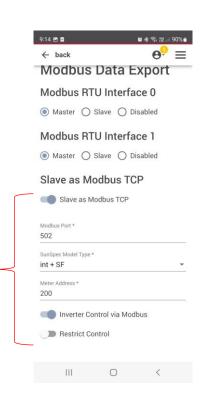
- Hard Limit OFF
- · export limit to ZERO
- Power down when meter fault.



2. Turn on modbusTCP

DYNAMIC / FLEXIBLE EXPORT CONTRO

Make sure the numbers are set as shown





DYNAMIC / FLEXIBLE EXPORT CONTRO

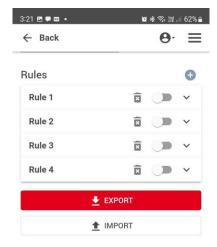
SUNSPEC Control

DYNAMIC / FLEXIBLE Export Control

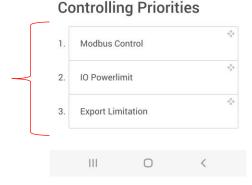
GEN24 setup via solar.start app

3. Set modbusTCP priority to High





Move Modbus Control from position 3 to Position 1





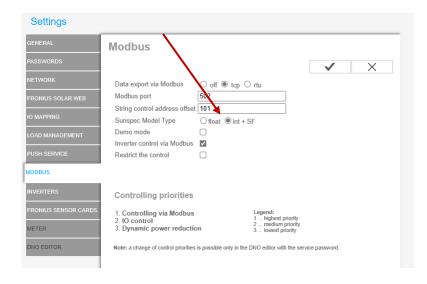
SUNSPEC Control

DYNAMIC / FLEXIBLE Export Control

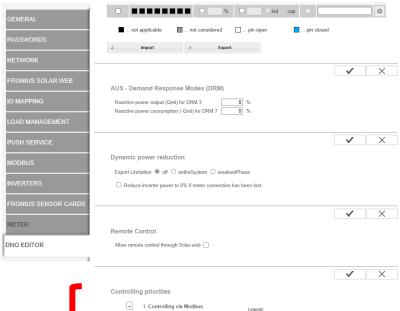
PRIMO SNAP-IN setup

1. Turn On Modbus TCP

Turn on the MODBUS over TCP and make sure settings are exactly as shown



2. Make the Modbus Highest Priority



Within the DNO Editor Scroll to the bottom. MAKE MODBUS THE HIGHEST **PRIORITY**

YNAMIC / FLEXIBLE

		✓ ×
Controlling priorities		
1. Controlling via Modbus © 2. IO control 3. Dynamic power reduction	Legend: 1 highest priority 2 medium priority 3 lowest priority	



DYNAMIC / FLEXIBLE EXPORT CONTROL

SUNSPEC Control

DYNAMIC / FLEXIBLE Export Control

Enable Sunspec on the CATCH Relay

Contact CATCH Power for details are how to do this.

REGISTER SITE

DYNAMIC / FLEXIBLE Export Control

Follow the Configuration steps in the Electricians Guide to register the site for the MONOCLE, and for Dynamic / Flexible Exports

DYNAMIC / FLEXIBLE EXPORT CONTROL