

SOLAR RELAY

INVERTER CONTROL with FIMER

UNO-DM



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







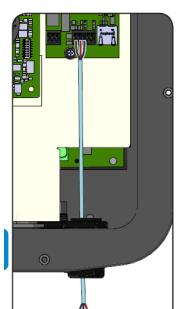
This guide discusses the specific wiring and configuration need to implement inverter control. Ensure the installation guide for both products is also followed.

Wiring Instructions

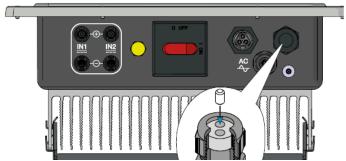
The UNO-DM-COM kit for RS485 must be installed in the inverter. This may be supplied with the inverter, or purchased separately from your inverter wholesaler.

Connect the RS485 wires as per the UNO-DM-COM kit instructions (replicated below)

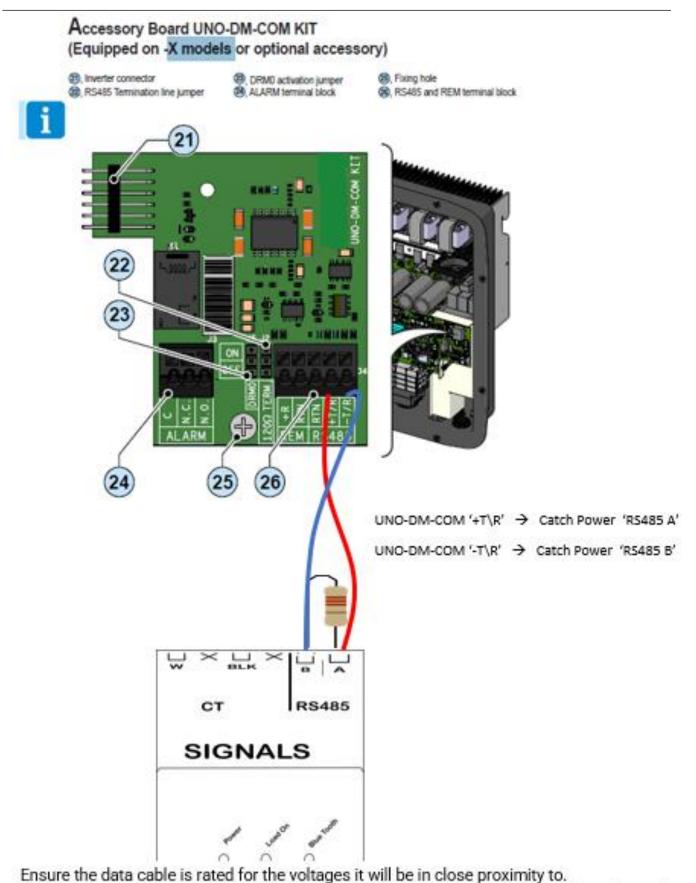
Communication and control signal connections to the UNO-DM-COM KIT board (only for -X models or optional accessory)



Each cable which must be connected to the UNO-DM-COM KIT or UNO-DM-PLUS-COM Ethernet KIT board connectors must be passed through the specific cable conduit present on the plastic shield of the mainboard, then it must be passed through the service cable glands @ present on the lower side of the inverter. An M25 cable gland (that takes cables from 10 mm to 17 mm in diameter) and a gasket with two holes to insert into the cable gland which enables two separate cables of a maximum diameter of 6 mm to be accommodated, are available.





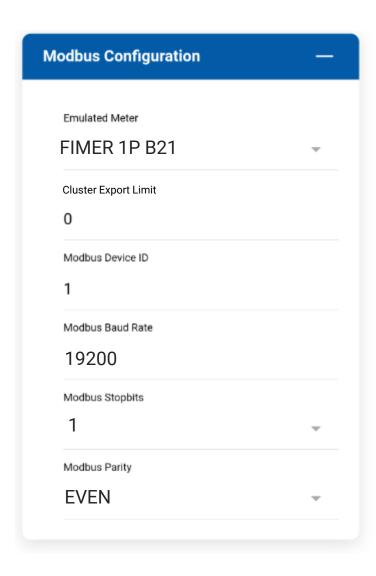


A 120 Ohm terminating resistor may be required at the CATCH Relay terminals as shown in the diagram below if the cable run is longer than 10m.



SOLAR RELAY Setup

The Solar Relay Must be configured before the Inverter, otherwise the inverter will not allow you to complete the entire setup process.

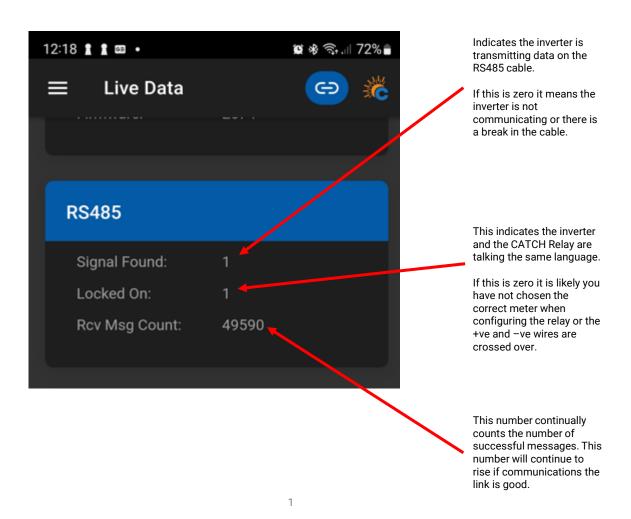




Checking the status of the RS485 interface

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





Inverter Setup

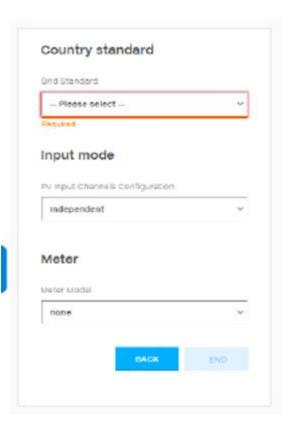
Follow the inverter commissioning instructions (Extract Below). When you get to choosing the meter model, select **FIMER 1PH**

STEP 4 - Inverter country standard, Input configuration and Meter configuration (Dynamic Feed-in Control)

Country standard: selection of grid standard:
 Set the grid standard of the country in which the inverter is installed.



From the moment that the grid standard is set, you have 24 hours to make any changes to the value, after which the "Country Select > Set Std." functionality is blocked, and the remaining time will have to be reset in order to have the 24 hours of operation available again in which to select a new grid standard (follow the procedure "Resetting the remaining time for grid standard variation" described in the relevant section).



Input mode:

(See the relevant section of this manual to know how set the input mode)

- 1. Indipendent
- 2. Parallel

Meter:

When a meter device is connected to the inverter, it's requested to select the meter model:

- None (where system is installed without meter)
- REACT-MTR-1PH (single-phase)
- FIMER1PH (single-phase)
- 4. FIMER3PH (three-phase)

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 FIMER monitoring platform will not work

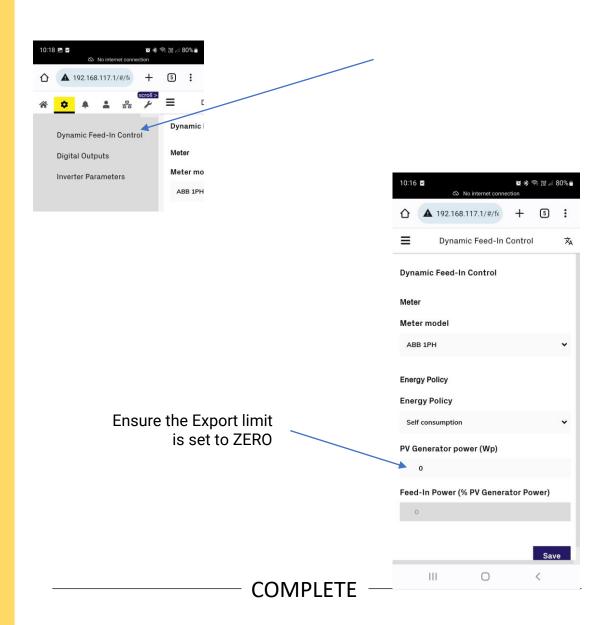


DYNAMIC / FLEXIBLE EXPORT CONTRO

NO BATTERIES

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

Under Dynamic Feed-in Controls





DYNAMIC / FLEXIBLE EXPORT CONTRO

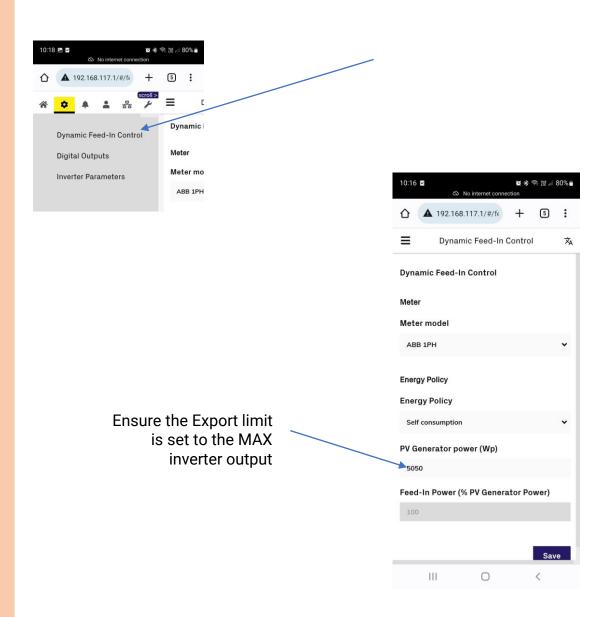
SUNSPEC Control

DYNAMIC / FLEXIBLE Export Control

SUNSPEC Configuration

Ensure the Inverter is connected to the Local WiFi system.

Under Dynamic Feed-in Controls





DYNAMIC / FLEXIBLE EXPORT CONTRO

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