SOLAR RELAY

INVERTER CONTROL
with HUAWEI

Models:
SUN2000-(2KTL-6KTL)-L1

CATCH Power
A trademark of Project H Pty Ltd
180 Dumaresq Street
Glen Innes
NSW   2370
Australia
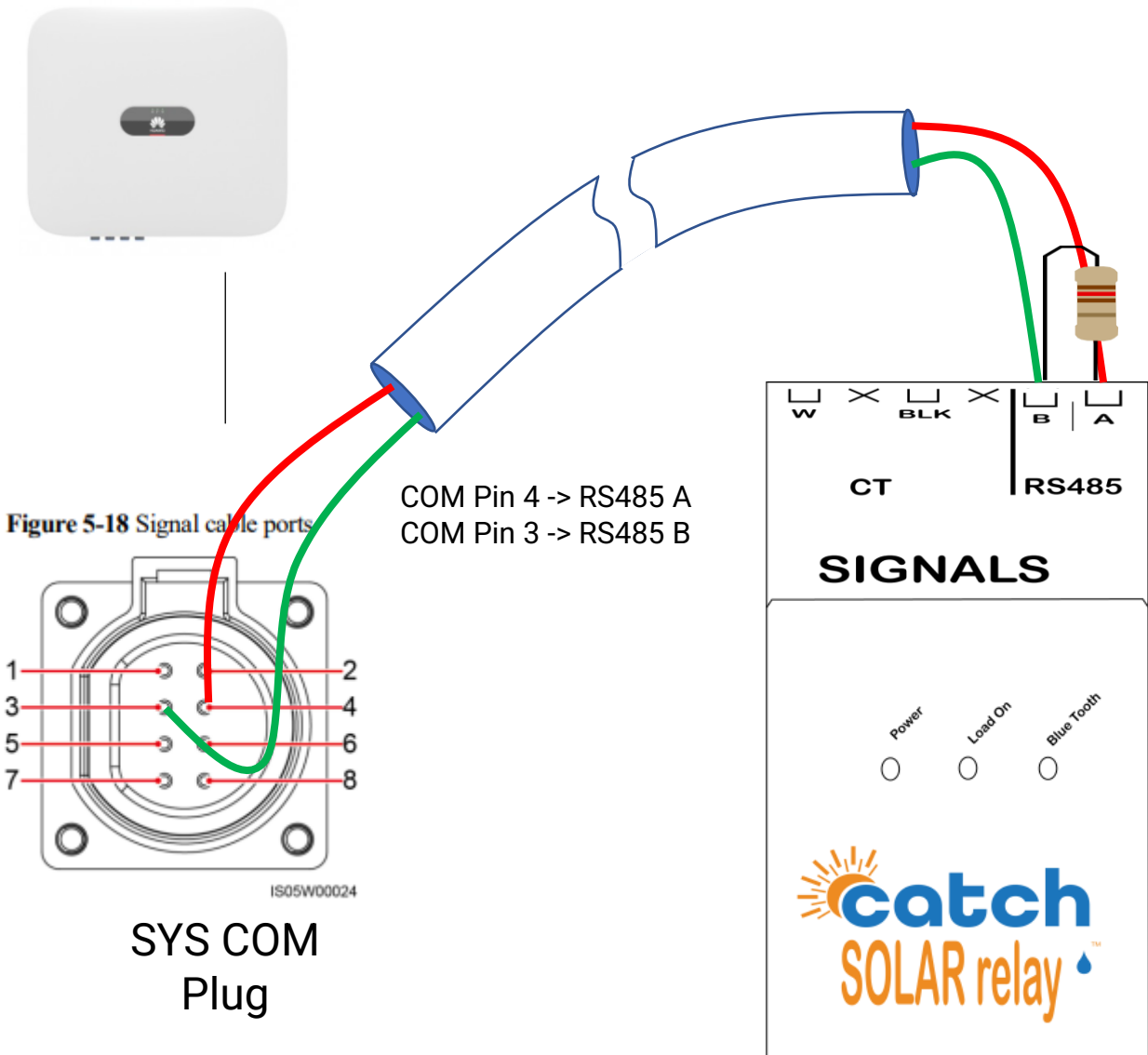Ph: **+64 2** 5700 5717
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This guide discusses the specific wiring and configuration need to implement inverter control. Ensure the installation guide for both products is also followed.

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.

COM Pin 4 -> RS485 A
COM Pin 3 -> RS485 B

Figure 5-18 Signal cable ports

1 2
3 4
5 6
7 8

IS05W00024

SYS COM
Plug

W   BLK   B   A

CT   RS485

SIGNALS

Power   Load On   Blue Tooth

catch
SOLAR relay

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.

Modbus Configuration —

Emulated Meter

Huawei CHINT DDSU666

Cluster Export Limit

0

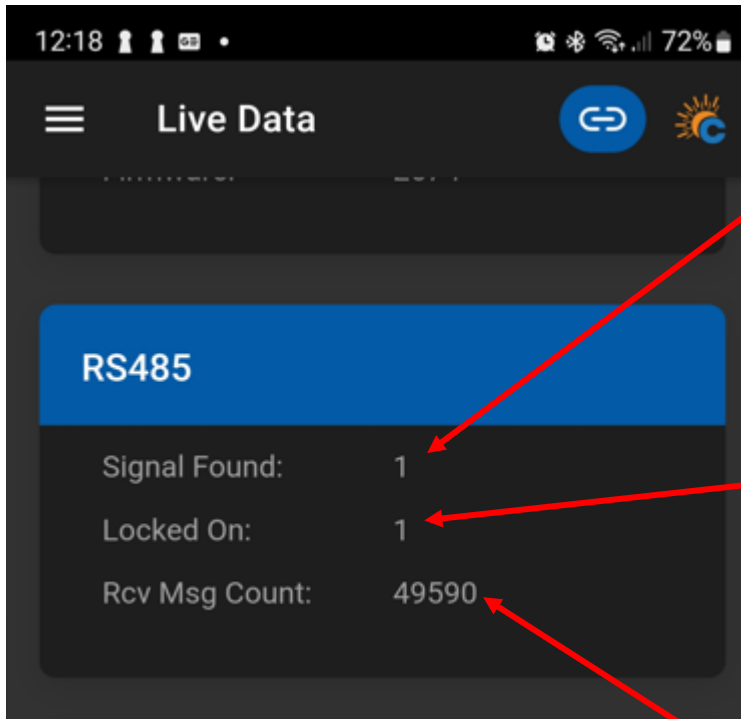**Modbus Device ID**

1

Modbus Baud Rate

9600

Modbus Stopbits

2

Modbus Parity

None

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

Indicates the inverter is transmitting data on the RS485 cable.

If this is zero it means the inverter is not communicating or there is a break in the cable.

This indicates the inverter and the CATCH Relay are talking the same language.

If this is zero it is likely you have not chosen the correct meter when configuring the relay or the +ve and −ve wires are crossed over.

This number continually counts the number of successful messages. This number will continue to rise if communications the link is good.

1

Inverter Setup

The configuration of the Huawei inverter is done through the **FusionSolar** App. This App is not available on the Apple or Google stores. The steps to obtain the App are listed below

Go to http://solar.huawei.com/au and click on the **Download FusionSolar App**.

The Download FusionSolar APP link actually asks you to install the Huawei App Gallery.

Once the Huawei App gallery is installed, open it and search for FusionSolar. There are two FusionSolar apps. Choose the one with the orange icon
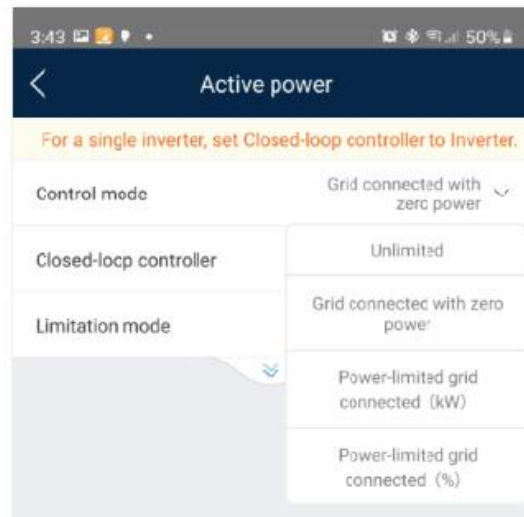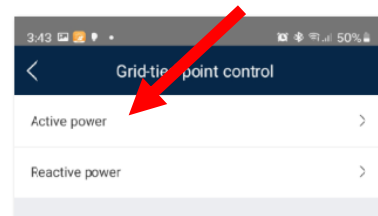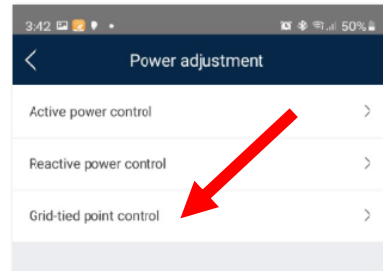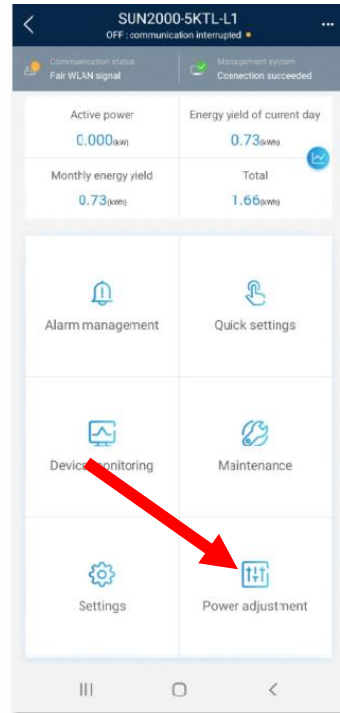
Follow the Huawei installation guide on how to commission the inverter using the FusionSolar App.
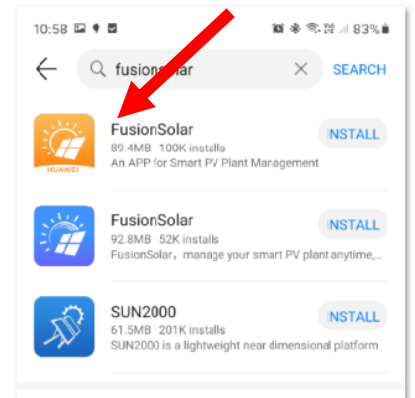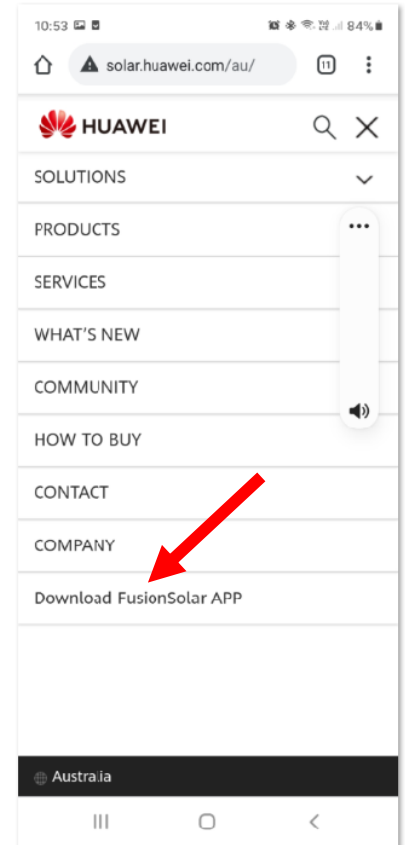
Inverter Setup..Continued

Configure the export limit inside the inverter

1. Power Adjustment
2. Grid-tied Point Control
3. Active Power
4. The setup the appropriate export controls

Inverter Setup..Continued

Once you have logged into the inverter using the FusionSolar app follow these steps.

1. Quick Settings
2. Add Power Meter
3. Choose **DDSU666-H (Single Phase)** and Com Address set to **1**