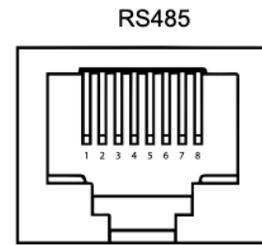
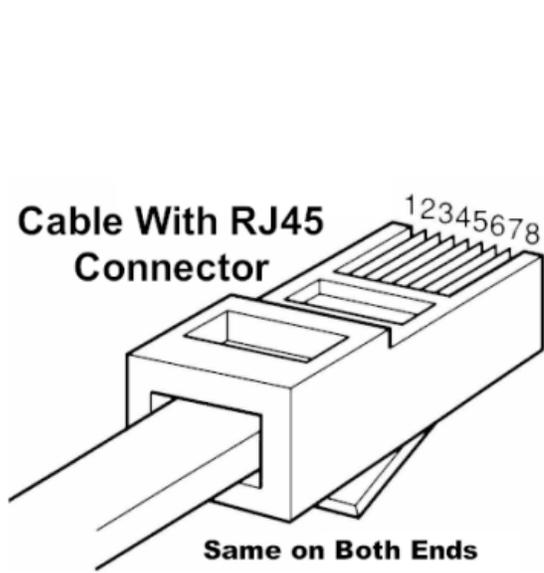


CANBAT



CANBAT TECHNOLOGIES INC

CANBAT CLI120-48 / Schneider XW Pro

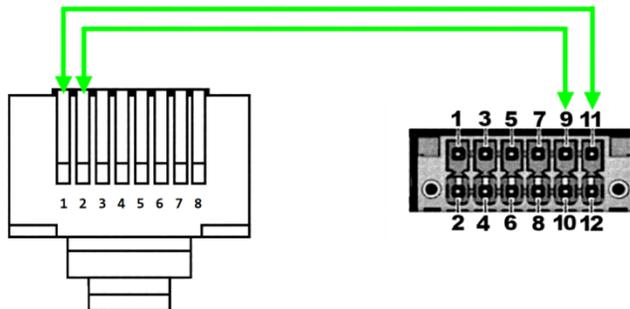


RS485 port

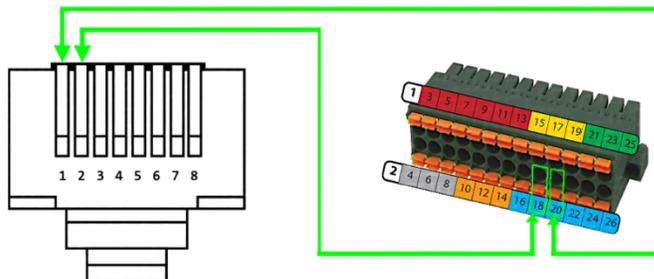
Pin No.	Definition
1	Inverter RS485B
2	Inverter RS485A
3	NC
4	NC
5	NC
6	NC
7	BMS debug RS485A
8	BMS debug RS485B

RS485 Modbus Communications Pinouts and Wiring Diagrams for RJ45 Connector. Please take note that the connector is depicted in the diagrams below with its end pointing away from you.

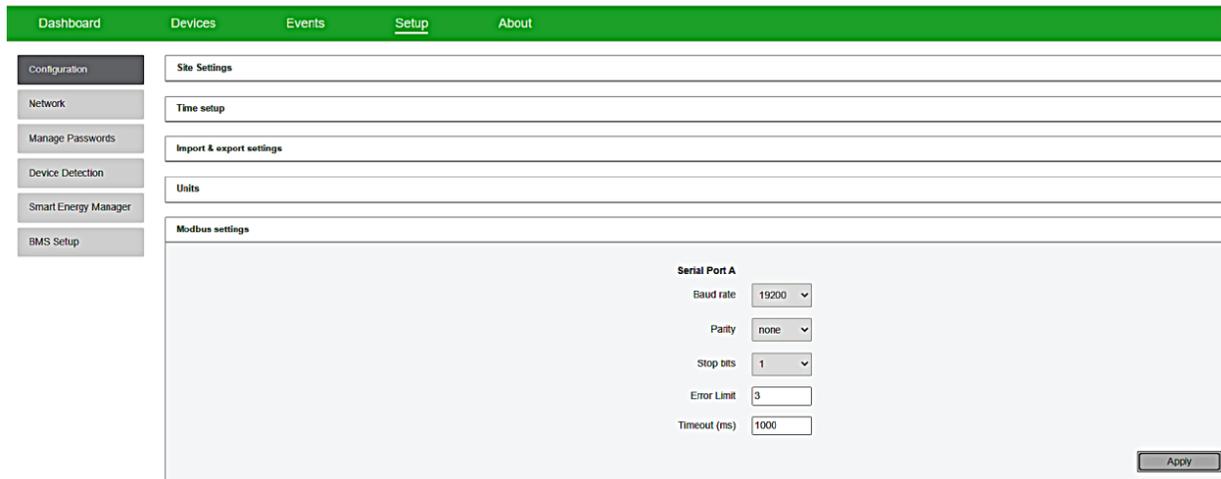
- Insight Home



- InsightFacility & Gateway



1. Start your XW Pro
2. Make sure that the rest of the Xanbus devices in your system are connected to the Xanbus network
3. Follow the instructions in the Insight Home manual to connect your computer to the Insight Home's WIFI access point and log in to Insight Local (the Insight Home, Insight Facility or Gateway internal web application) using the admin user and password.
4. In InsightLocal:
 - a. Put the XW Pro into Standby.
 - b. Click "Setup" in the green top horizontal menu
 - c. Click "Configuration" in the left-hand vertical menu.
 - d. Click "Modbus settings"
 - e. In Modbus settings: Set the Baud Rate to 19200; Parity to "none"; Stop bits to 1; Error limit to 3; Timeout (ms) to 1000
 - f. Click Apply

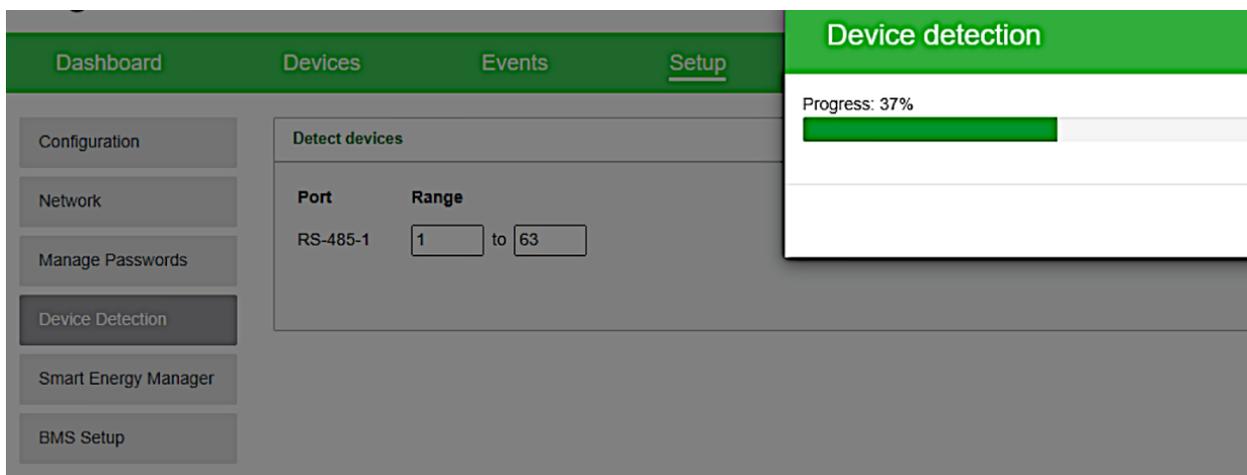


The screenshot shows the 'Setup' page in the Insight Local web interface. The top navigation bar is green with 'Dashboard', 'Devices', 'Events', 'Setup', and 'About'. The left sidebar has 'Configuration' selected. The main content area shows 'Modbus settings' with the following fields:

- Serial Port A
- Baud rate: 19200 (dropdown)
- Parity: none (dropdown)
- Stop bits: 1 (dropdown)
- Error Limit: 3 (text input)
- Timeout (ms): 1000 (text input)

An 'Apply' button is located at the bottom right of the settings area.

5. Click on device detection
6. Click detect devices (Make sure to set the range from 1-63)

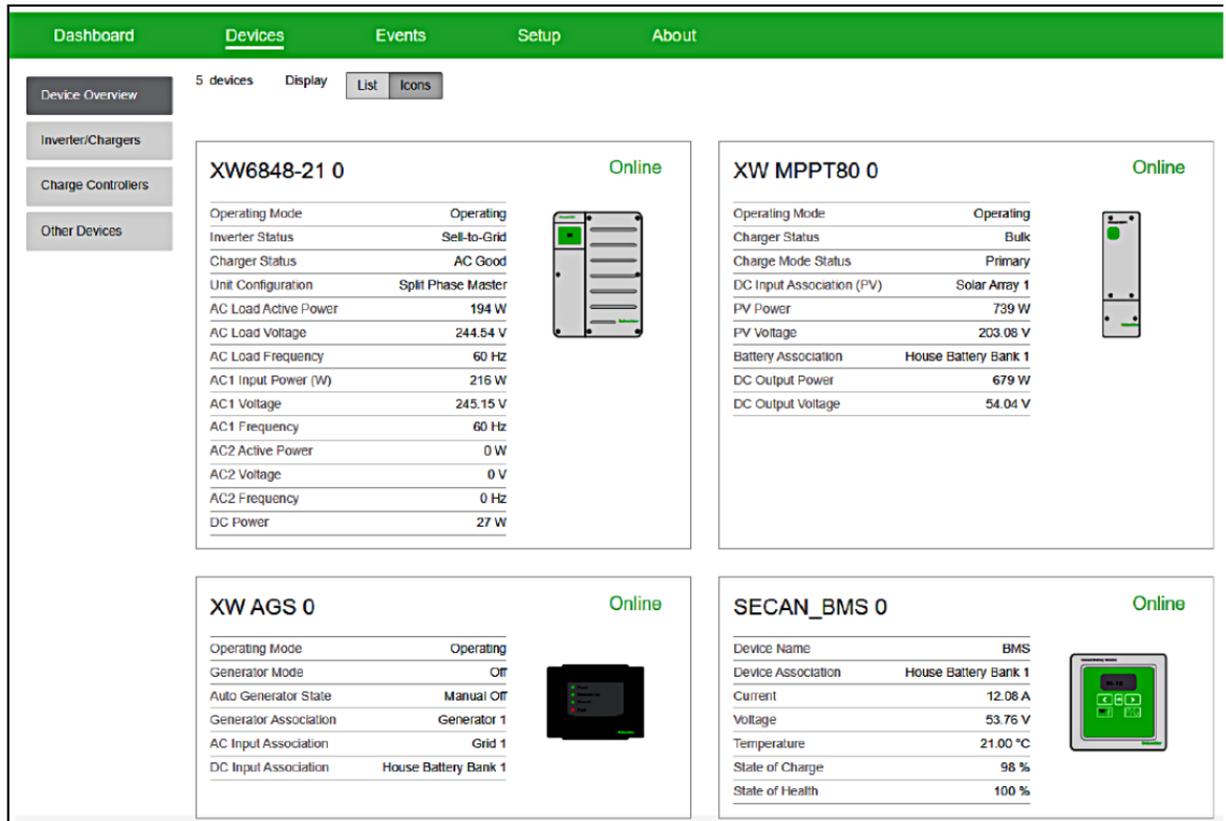


The screenshot shows the 'Device Detection' progress window in the Insight Local web interface. The top navigation bar is green with 'Dashboard', 'Devices', 'Events', and 'Setup'. The left sidebar has 'Device Detection' selected. The main content area shows 'Detect devices' with the following fields:

- Port: RS-485-1
- Range: 1 to 63 (text inputs)

The 'Device detection' window is overlaid on the right side, showing a progress bar at 37%.

- Click “Devices” in the green, top, horizontal menu. If it is not already selected, click “Device Overview” from the left-hand menu. The Canbat CLI120-48 should show up as “SECAN_BMS_0”



The screenshot shows the Canbat web interface with the 'Devices' menu selected. The left-hand menu has 'Device Overview' highlighted. The main content area displays four device cards, each with a table of status and performance metrics and a small device icon. All devices are marked as 'Online'.

XW6848-21 0		Online
Operating Mode	Operating	
Inverter Status	Self-to-Grid	
Charger Status	AC Good	
Unit Configuration	Split Phase Master	
AC Load Active Power	194 W	
AC Load Voltage	244.54 V	
AC Load Frequency	60 Hz	
AC1 Input Power (W)	216 W	
AC1 Voltage	245.15 V	
AC1 Frequency	60 Hz	
AC2 Active Power	0 W	
AC2 Voltage	0 V	
AC2 Frequency	0 Hz	
DC Power	27 W	

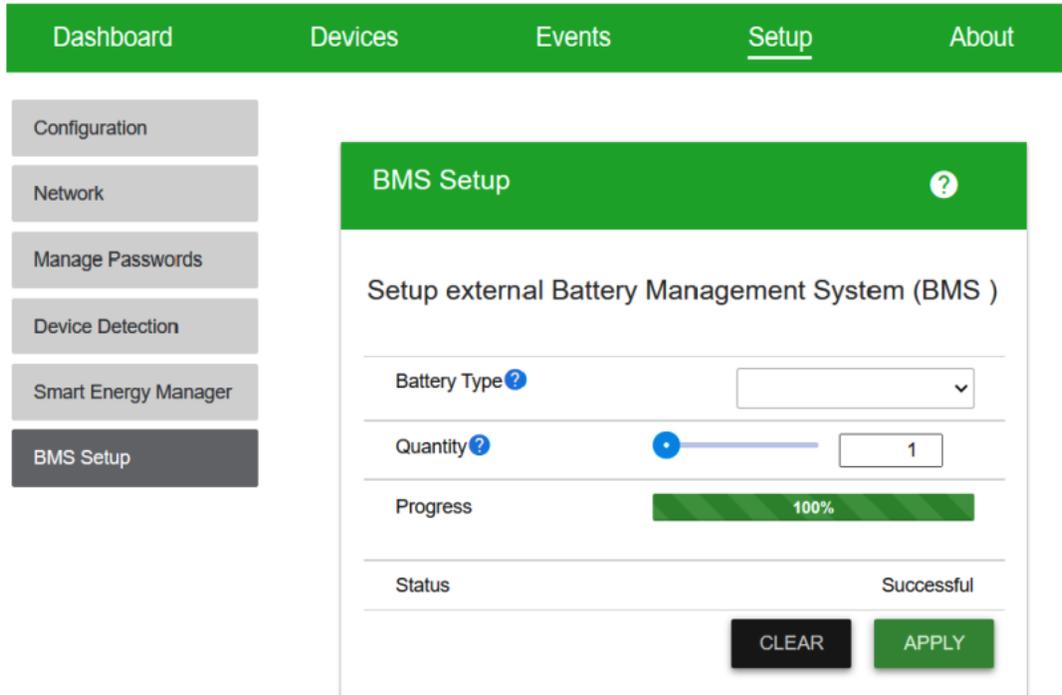
XW MPPT80 0		Online
Operating Mode	Operating	
Charger Status	Bulk	
Charge Mode Status	Primary	
DC Input Association (PV)	Solar Array 1	
PV Power	739 W	
PV Voltage	203.06 V	
Battery Association	House Battery Bank 1	
DC Output Power	679 W	
DC Output Voltage	54.04 V	

XW AGS 0		Online
Operating Mode	Operating	
Generator Mode	Off	
Auto Generator State	Manual Off	
Generator Association	Generator 1	
AC Input Association	Grid 1	
DC Input Association	House Battery Bank 1	

SECAN_BMS 0		Online
Device Name	BMS	
Device Association	House Battery Bank 1	
Current	12.08 A	
Voltage	53.76 V	
Temperature	21.00 °C	
State of Charge	98 %	
State of Health	100 %	

- Click “Setup” in the green, top, horizontal menu.
- Click “BMS Setup” in the left-hand vertical menu.

Select Canbat as the battery type and input the number of battery modules in your battery bank then Click “Apply”.



BMS Setup ?

Setup external Battery Management System (BMS)

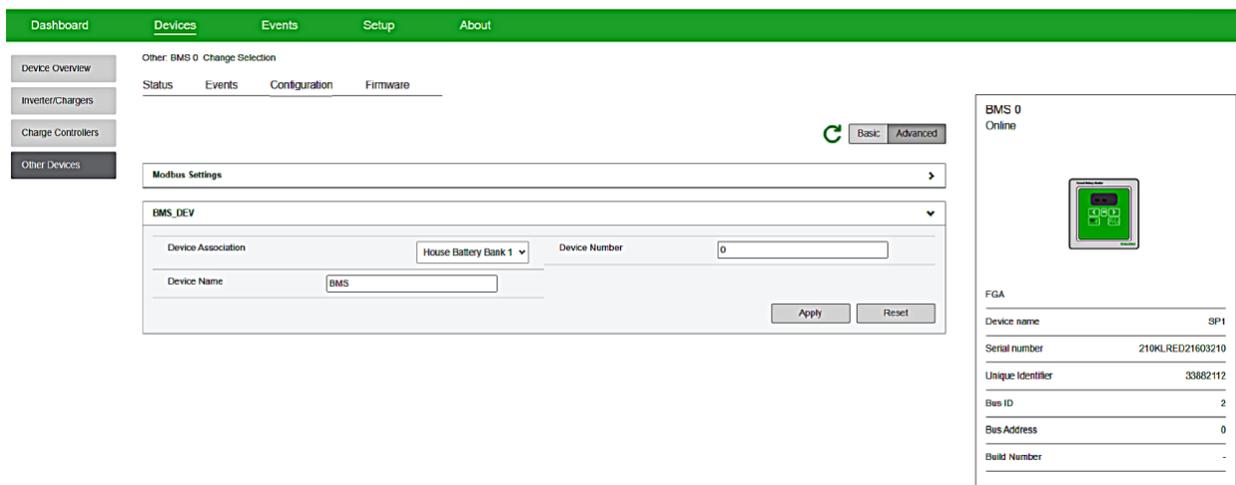
Battery Type ?

Quantity ? 1

Progress 100%

Status Successful

Click “Devices” in the green, top, horizontal menu then Click “Other Devices” in the left-hand menu then Click “SECAN_BMS_0” then Click “Configuration” then Click “BMS_DEV” and Set the Device Association to “House Battery Bank 1”. Click “Apply”



Dashboard Devices Events Setup About

Device Overview
Inverter/Chargers
Charge Controllers
Other Devices

Other: BMS 0 Change Selection

Status Events Configuration Firmware

Modbus Settings

BMS_DEV

Device Association Device Number

Device Name

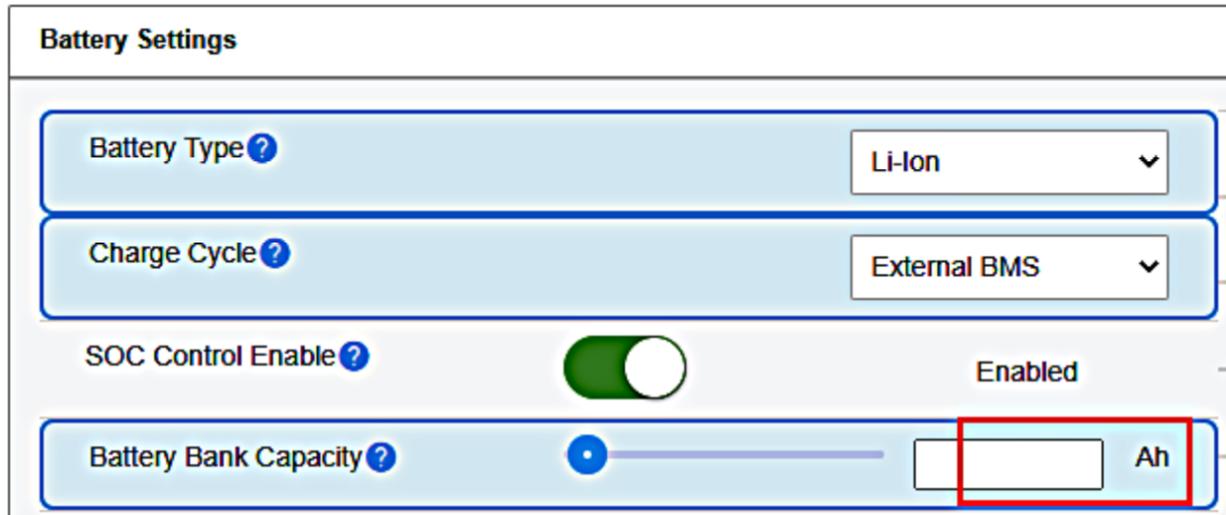
BMS 0
Online



FGA

Device name	SP1
Serial number	210KLRD21603210
Unique Identifier	33882112
Bus ID	2
Bus Address	0
Build Number	-

Click “Inverter/Chargers” then select your XWPro then go into Configuration then Go into the “Battery Settings” menu. Enter the total capacity of your Canbat battery bank (just multiply 120 by the number of modules in your battery bank) and “Apply”.



Battery Settings

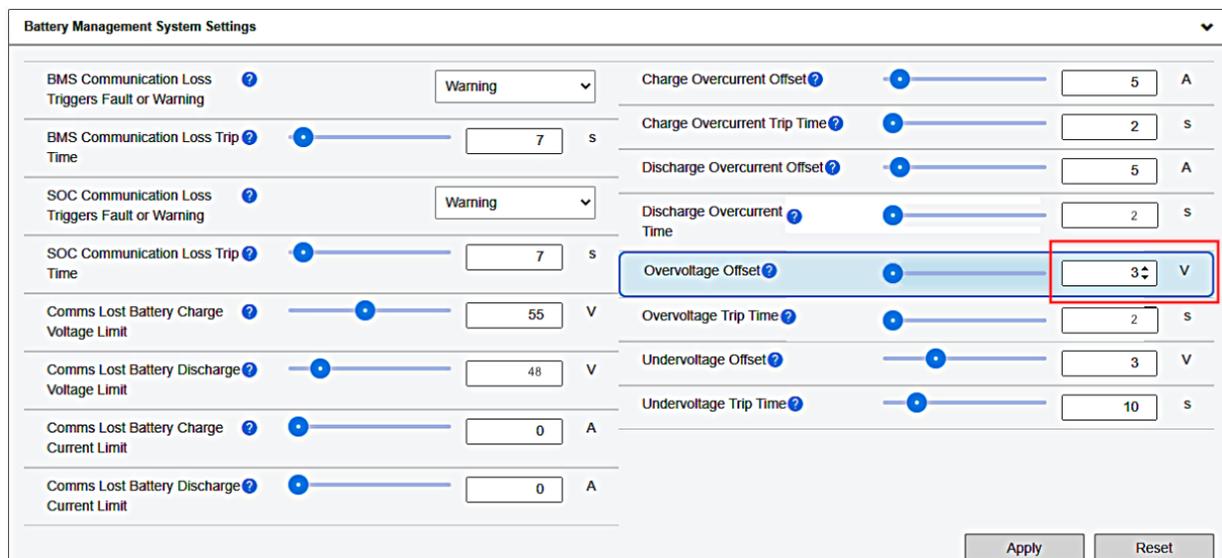
Battery Type [?] Li-Ion

Charge Cycle [?] External BMS

SOC Control Enable [?] Enabled

Battery Bank Capacity [?] Ah

Go into the “Battery Management System Settings” menu. Set the “Overvoltage Offset” to 3V and “Apply”.



Battery Management System Settings

BMS Communication Loss Triggers Fault or Warning [?]	<input type="text" value="Warning"/>	Charge Overcurrent Offset [?]	<input type="text" value="5"/> A
BMS Communication Loss Trip Time [?]	<input type="text" value="7"/> s	Charge Overcurrent Trip Time [?]	<input type="text" value="2"/> s
SOC Communication Loss Triggers Fault or Warning [?]	<input type="text" value="Warning"/>	Discharge Overcurrent Offset [?]	<input type="text" value="5"/> A
SOC Communication Loss Trip Time [?]	<input type="text" value="7"/> s	Discharge Overcurrent Trip Time [?]	<input type="text" value="2"/> s
Comms Lost Battery Charge Voltage Limit [?]	<input type="text" value="55"/> V	Overvoltage Offset [?]	<input type="text" value="3"/> V
Comms Lost Battery Discharge Voltage Limit [?]	<input type="text" value="48"/> V	Overvoltage Trip Time [?]	<input type="text" value="2"/> s
Comms Lost Battery Charge Current Limit [?]	<input type="text" value="0"/> A	Undervoltage Offset [?]	<input type="text" value="3"/> V
Comms Lost Battery Discharge Current Limit [?]	<input type="text" value="0"/> A	Undervoltage Trip Time [?]	<input type="text" value="10"/> s

Apply Reset

The final step is to take the XW Pro out of standby.

