

Application Note AN006

How to Set the Modbus Address and Baud Rate on SolaX Inverters

Overview

For communications between the Hub and the battery system to work correctly, the inverter must be set to use the correct modbus address and baud rate. The Hub expects the modbus address and baud rate of SolaX inverters to be set to factory default values of 4 and 19200 kbps, respectively. Occasionally SolaX products are delivered with a different modbus address and/or baud rate. When this happens the Hub will show an 'Inverter Comms' fault.

This note explains how to simply check and set the modbus address and baud rate on SolaX inverters using the control panel on the front of the inverter.

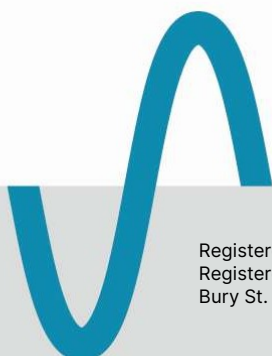
Compatible Models

- X1-FIT G4
- X1-HYBRID G4
- X3-HYBRID G4

Quick Summary for Experienced Users

If you're confident with working with the control panel/LCD on the front of SolaX inverters, check/update the modbus address and baud rate settings match the values in the table below. Change them to the correct values if necessary:

Setting	Value
Modbus Address	4
Baud Rate	19200



1. Setting the Modbus Raud Rate:

- Navigate to Menu -> Settings -> Advance Settings -> Modbus -> Braud Rate
- Check the value is set to "19200". Change if necessary.

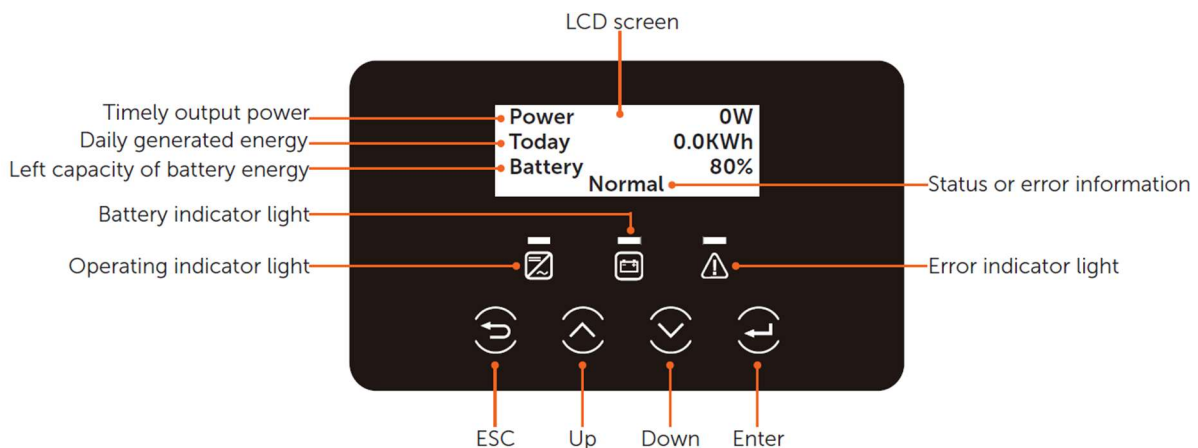
2. Setting the Modbus Address:

- Navigate to Menu -> Settings -> Advance Settings -> Modbus -> Address
- Check the value is set to "004". Change Is necessary.

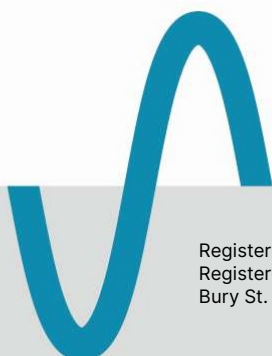
Detailed Steps-by-Step Guide

1. Access the Inverter Menu

- Go to the inverter and wake up the LCD screen (if it's asleep).



- **Note:** Use the **Up, Down, Enter** and **Back (ESC)** buttons to navigate the control panel
- Use the **Down** button to scroll down to **Settings** and press **Enter**.
- Enter the **Installer Password ("2 0 1 4")** by using the Up and Down arrow buttons to change each digit. Press **Enter** to advance to the next digit.



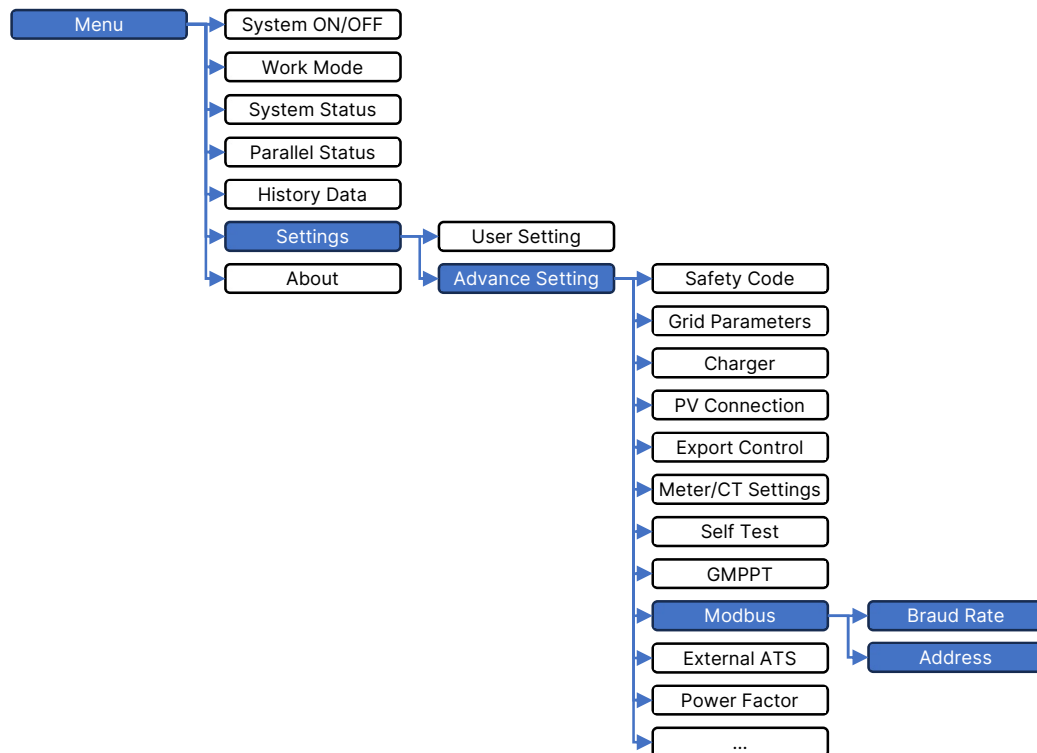


Figure 1: A subset of the menu items found on the X1-HYBRID G4

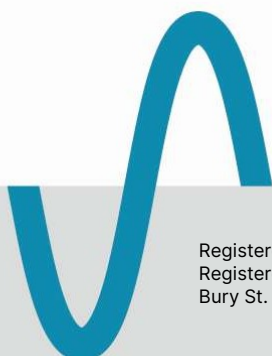
- Scroll down to **Advance Settings** and press **Enter**.

2. Navigate to Modbus Settings

- Inside **Advance Settings**, scroll down to **Modbus**.
- You'll see options for:
 - **Address** ("COM485 Address" on the X3-HYBRID G4); and
 - **Braud Rate**

3. Set the Modbus Address

- Select **Address** and press **Enter**
- Use the **Up** and **Down** buttons to adjust the value to **004**



Important: The Address is entered as three digits set from left to right. The value must be set as “**0 0 4**”. Press **Enter** twice to advance to the rightmost digit and then use the Up arrow button to increment it to **4**.

- Press **Enter** to confirm, and then Back (**ESC**) to return to the Modbus menu.

4. Set the Baud Rate

- Select **Braud Rate** and press **Enter**.
- Select a baud rate of **19200**
- Press **Enter** to confirm

5. Double check the values

- After setting both values, return to the top level **Menu** by pressing the Back (**ESC**) button several times
- Repeat the previous steps to confirm the settings are now correct

Additional Resources

For more details on SolaX product, refer to SolaX’s documentation at solaxpower.com

