

Application Note AN012

Afore RS485 Wiring Guide

Connecting the Levelise Hub to the Afore ASL Series All-In-One battery using RS485

Overview

The Afore ASL Series uses a different RS485 pinout to the RS485 cable included in the box with Hub 2, requiring a custom cable configuration.

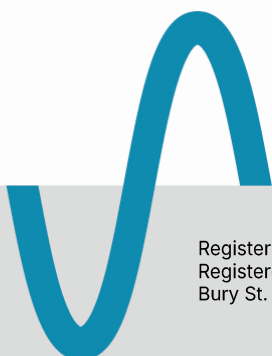
This note explains how to modify the Hub 2-Inverter RS485 cable included with Hub 2.

What You'll Need

- Hub 2-Inverter RS485 cable (included in the box)
- 1x RJ45 connector
- RJ45 crimping tool
- Wire strippers
- Cable tester

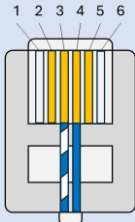
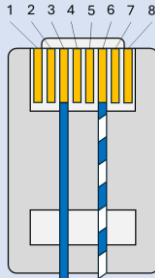
Compatibility

- Levelise Hub 2
- Afore ASL series inverter



Quick Summary for Experienced Users

If you're confident, use the following pinout reference table to make a new cable from scratch by terminating the required length of Cat5e cable with a RJ11 connector (included in the box) at one end and an RJ45 connector at the other:

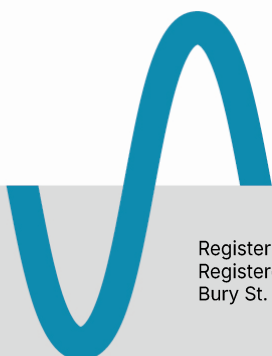
Pin	Hub End (RJ11 Connector)	ASL Series End (RJ45 Connector)
		
1	Not present	Unused by Hub
2	Unused by Hub	Unused by Hub
3	Blue & white (RS485 B)	Blue (RS485 A)
4	Blue (RS485 A)	Unused by Hub
5	Unused by Hub	Unused by Hub
6	Not present	Blue & white (RS485 B)
7	Not present	Unused by Hub
8	Not present	Unused by Hub

Otherwise, follow the detailed step-by-step instructions below to modify the Hub 2-Inverter RS485 cable provided.

Detailed Steps-by-Step Guide

1. Prepare the Cable

- Cut off the RJ45 connector from the Hub 2-Inverter RS485 cable using wire cutters.
- Strip ~25mm of the outer sheath from the cut end.
- Untwist and straighten the wire pairs.



2. Rearrange the Wires

- Align wires from left to according to the ASL Series pinout table above.
- Ensure:
 - **Blue wire (RS485 A)** is in **position 3**; and
 - **Blue & white wire (RS485 B)** is in **position 6**

3. Terminate the Cable

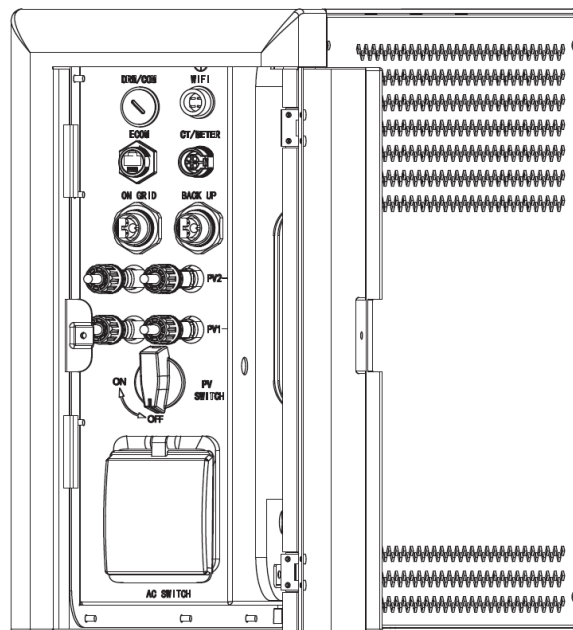
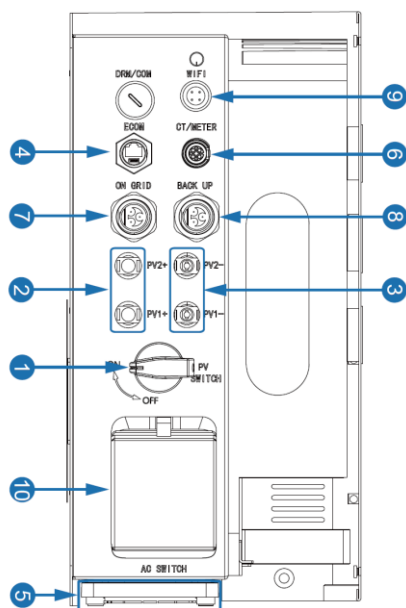
- Trim wires evenly, leaving ~12mm exposed.
- Insert wires into the RJ45 plug, ensuring full insertion and correct alignment as shown below.

Important: Ensure the cable sheath also enters the plug slightly for strain relief.

- Crimp the connector securely.
- Use a cable tester to verify continuity and pinout (Recommended).

4. Connect the Cable*

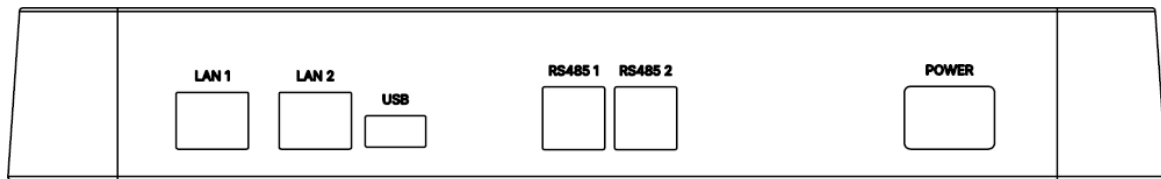
- Plug the modified RJ45 end into the ECOM port (4) in the cabinet on the ASL inverter's right hand side*.



* IMPORTANT: Where these steps differ from or conflict with the manufacturer instructions, the manufacturer's instructions take precedence

Rev. 1

- Plug the unmodified RJ11 end into the port marked 'RS485 1' on Hub 2.



- If using the Outdoor Kit, ensure all cable glands are properly sealed.

Additional Resources

For more details on the Afore ASL Series, refer to Afore documentation at <https://www.aforeenergy.com/>

