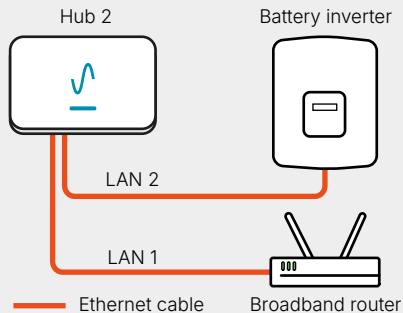


5 Internet connection

Hub 2 supports Ethernet or Wi-Fi for its internet connection. For best long-term reliability use Ethernet.



1. Connect an Ethernet cable to the 'LAN 1' port on Hub 2 and a spare network port on the broadband router
2. Optionally, to share a single internet connection through Hub 2, connect an Ethernet cable to the 'LAN 2' port on Hub 2 and the internet port on the battery inverter

IMPORTANT:

- Avoid routing Ethernet cables alongside 230 V AC cables
- Avoid using powerline adaptors or Wi-Fi extenders

To use Wi-Fi, follow in app instructions during commissioning (see next step).

IMPORTANT:

- Wi-Fi set up will use Bluetooth to connect to Hub 2. You must be within Bluetooth range for the connection to succeed
- Wi-Fi signal strength at Hub 2 must be sufficient to provide a reliable connection

6 Installer commissioning

1. With the installer's phone, scan the QR code on the introduction leaflet or on the side of Hub 2 using the Levelise app
2. Follow instructions in app



7 Homeowner registration

1. The homeowner should scan the QR code on the side of Hub 2 or the introduction leaflet
2. Follow instructions in app



For technical support, including the full user manual, visit support.levelise.com

levelise

Hub 2

Quick Installation Guide

Installation steps

1. Ensure the intended battery system is compatible with Levelise Hub 2
2. Install the battery system according to manufacturer's instructions
3. Install Hub 2 meter on the supply to the battery inverter
4. Mount Hub 2 securely on the wall
5. Connect Hub 2 to the inverter and the Hub 2 meter
6. Power on and connect Hub 2 to the internet
7. Commission Hub 2 (by the installer)
8. Homeowner app registration (by the homeowner)



Package contents

	Hub 2
	Wall bracket
	Registration leaflet
	Fixing kit
	Hub 2-Meter RS485 cable
	Hub 2-Inverter RS485 cable
	2x RJ11 connectors
	Power cable

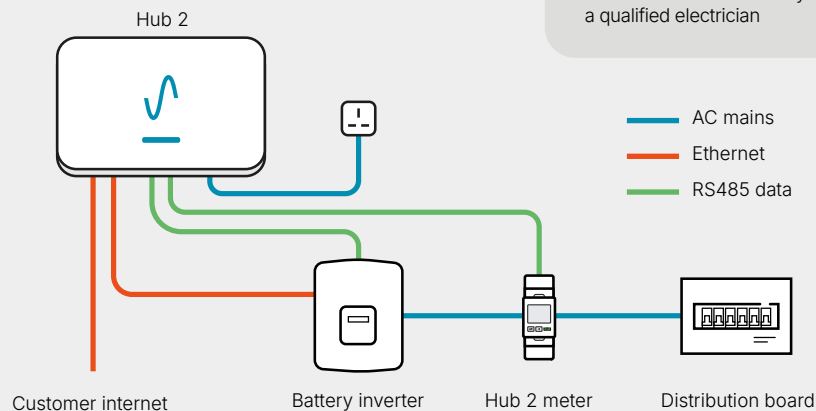
Required

	Pozi #2 screwdriver
	Drill & 6 mm drill bit
	Spirit level
	Smartphone
	RJ45 crimping tool
	Cat5 cable
	Wire cutters and strippers
	Eastron SDM230-NMI-2 (Hub 2 Meter)

1 Installation overview

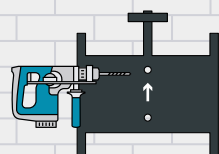
IMPORTANT:

Hub 2 must be installed by a qualified electrician

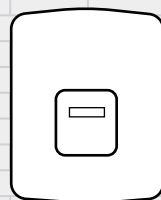


2 Mounting

Mount the wall bracket using appropriate fixings. Arrow pointing up.



Wall bracket

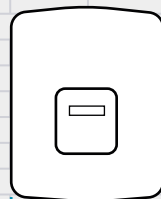


Battery inverter

Clip Hub 2 onto wall bracket.



Hub 2



Battery inverter

> 100 mm

3 Connect Hub 2 RS485 to battery inverter

For compatible SolaX products:

1. Plug the 'INVERTER' connector on the supplied inverter RS485 cable into the battery inverter port labelled 'COM/LCD'
2. Plug the 'HUB 2' connector on the supplied inverter RS485 cable into the Hub 2 port labelled 'RS485 1'

For other compatible inverter brands:

1. Modify the supplied inverter RS485 cable to match the inverter RS485 connection in the table below and connect to the battery inverter's RS485 port:

BRAND	CONNECTOR	BLUE (RS485 A)	BLUE & WHITE (RS485 B)
Afore	RJ45	Pin 3	Pin 6
Alpha ESS	RJ45	Pin 5	Pin 4
Fox ESS	Proprietary	Pin 4	Pin 3
SolaX	RJ45	Pin 4	Pin 5
Hinen	RJ45	Pin 6	Pin 3

2. Plug the 'HUB 2' connector on the supplied inverter RS485 cable into the Hub 2 port labelled 'RS485 1'

For user manual and guides, visit support.levelise.com

IMPORTANT:

- Maintain a 50 mm gap between comms and power cables
- Do not use spare cores in the RS485 cables for any other purpose
- Always use two sensors with compatible AC-coupled battery systems – one for grid import/export and one for solar generation
- When using CTs, avoid extending the cables as this will impact their accuracy

4 Connect Hub 2 RS485 to meter

From distribution board

L-in

To inverter

Hub 2 monitors the battery inverter's output using an Eastron SDM230-NMI-2 meter. This must be installed for Hub 2 to properly function.

1. Wire the meter such that terminal 1 connects to the supply from the distribution board and terminal 2 connects to the battery inverter
2. Using the supplied RS485 cable, connect the end labelled 'Meter' to the meter so the orange wire is in terminal 9 and the orange and white wire is in terminal 10
3. Connect the end labelled 'HUB 2' to the port marked 'RS485 2' on Hub 2



N-in



	GREEN (GROUND)	ORANGE (RS485 B)	ORANGE & WHITE (RS485 A)
Hub 2 meter	Terminal 8	Terminal 9	Terminal 10
Hub 2 RJ11	Pin 2	Pin 3	Pin 4

IMPORTANT:

- Install meter in suitably rated enclosure
- Ensure meter is set to baud rate 19,200 and address 1