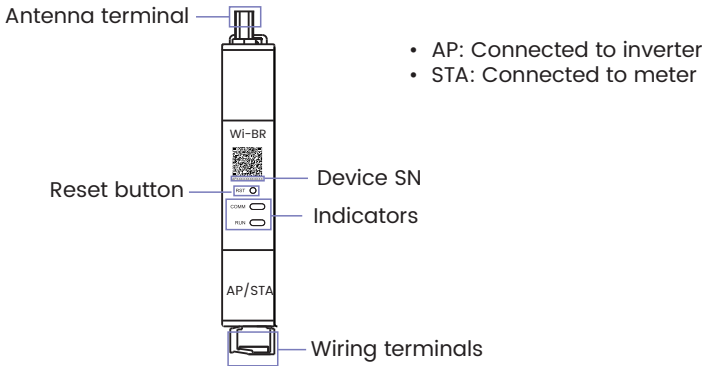
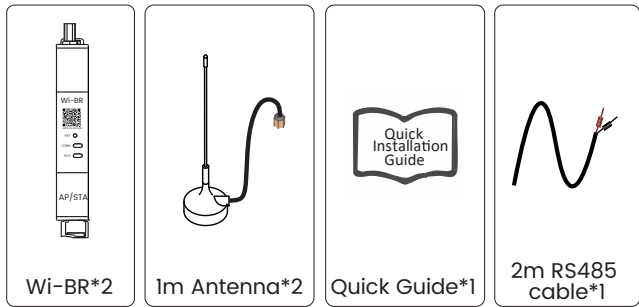


Wi-BR Quick Installation Guide

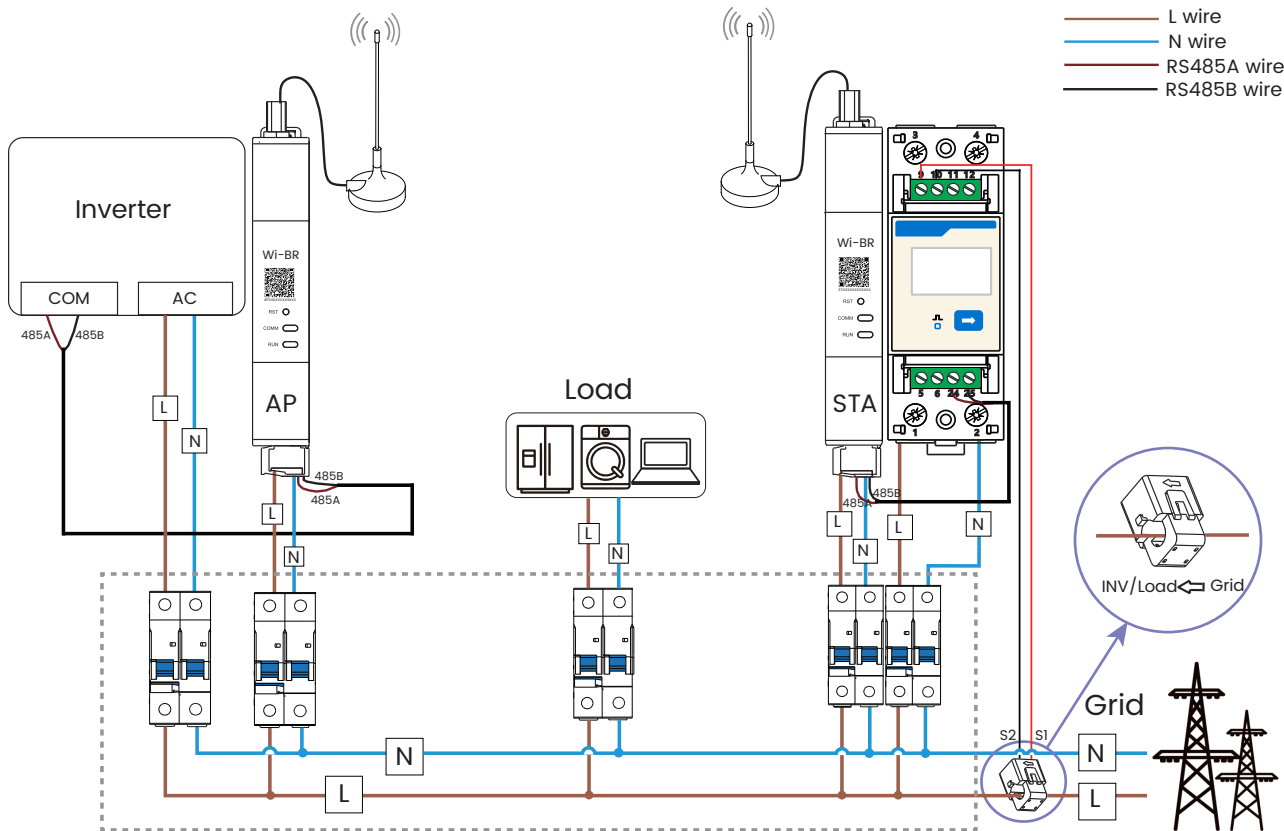
1. Product Introduction



2. Scope of Delivery



3. System Wiring



*The Wi-BR can work with both single-phase and three-phase meters. This manual uses the connection to single-phase meter for example.
*The rectangled part uses the wiring in power distribution box for example and is for reference only. The actual wiring is subject to on-site conditions.

4. Mounting

Step 1: Connect the cables based on the system wiring diagram, and then mount the Wi-BRs and meter to the 35 mm DIN rails.

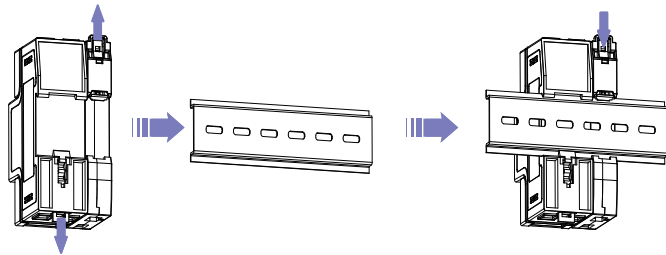


Figure 4-1 Mounting Wi-BR

Step 2: Connect the antenna to the Wi-BR through the antenna terminal.

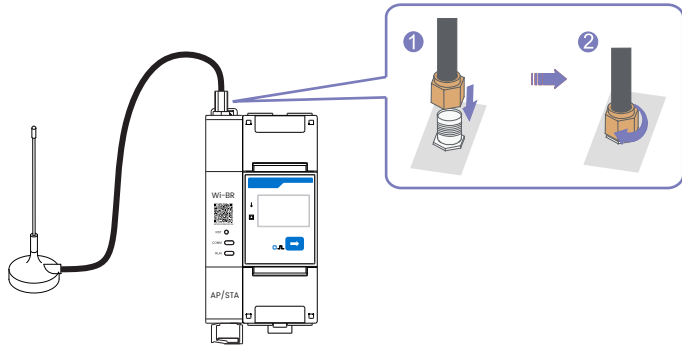


Figure 4-2 Installing the antenna

Step 3: Fix the antenna outside the power distribution cabinet.

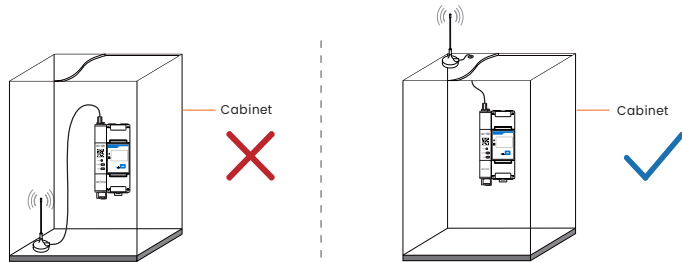


Figure 4-3 Fixing the antenna

NOTE

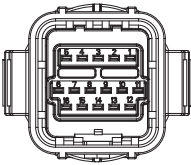
Please fix the antenna on the top of the cabinet. Otherwise, it may interfere in the signal transmission inside the cabinet.

5. Compatible Inverters and Pin Definition

Table 5-1 Inverter model and Pin definition

| Inverter category | Inverter series | Connector type | Pin No. | Pin definition |
|----------------------------|-----------------|----------------|---------|----------------|
| Grid-connected PV inverter | KH | RJ45 | 1 | 485A |
| | | | 2 | 485B |
| | HI-G2 | RJ45 | 1 | 485A |
| | | | 2 | 485B |

For KH/HI-G2:



| PIN Port | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----------------------|---------------|---------------|------|------|------|------|------|------|
| CT/ Meter/ 485 | Meter 485A | Meter 485B | 485B | 485A | CT2+ | CT2- | CT1- | CT1+ |
| PIN Port | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| CT/ Meter/ 485 | / | K1 | K2 | K3 | K4 | / | DI | COM |

6. Configuration

NOTE

Before connecting the cables for the Wi-BR, make sure that you have cut off the power supply in the circuit.

Step 1: Connect the Wi-BRs, inverter, meter and CT based on the system wiring diagram.

Step 2: Power on the Wi-BRs.

Step 3: Check if the RUN and COMM indicator lights of both the AP and STA models are solid green. If not, see 8 Troubleshooting for solution.








Step 4: (Optional) To replace or add a STA model, press the Reset button on the AP and new STA model at the same time for 3 seconds to pair them.

7. Indicator Description

NOTE

The Wi-BRs are already paired before delivery. The AP model enters the pairing mode after you press the Reset button for 3 seconds, and then exit pairing after 1 minute if no STA is detected.

Table 7-1 Indicator status and description

| Indicator | Color | Status | Description |
|-----------|--|----------------|---|
| RUN |  | Solid green | Normal power supply, RS485 cable connection and antenna connection |
| |  | Flashing green | Abnormal RS485 cable connection between AP and inverter, or between STA and meter |
| |  | Off | No power supply |
| COMM |  | Solid green | AP and STA paired successfully. |
| |  | Flashing green | Transmitting data between AP and STA |
| |  | Flashing red | Pairing AP and STA |
| |  | Solid red | AP and STA failed to pair. |

8. Troubleshooting

Table 8-1 Possible problems and suggestions

| Problem | Reason | Solution |
|--|--|--|
| No indicator lights up after powered on. | Abnormal power supply | Check and reconnect the power cables. |
| The RUN indicator flashes green. | Connection between the Wi-BR and the inverter or meter failed. | Check if the RS485 cables are normal. If yes, reconnect them; if not, change the cables and then reconnect them. |
| The COMM indicator is solid red. | AP and STA failed to pair. | Press the Reset button on the AP model and STA model for 3 seconds in sequence to pair them again. |

9. Technical Data

Table 9-1 Device specification

| | |
|---------------------------|----------------------------|
| Model | Wi-BR |
| Working method | AP / STA |
| Communication Terminal | RS485 * 1 (for each model) |
| Protocol | IEEE 802.11ah |
| Phase voltage | 85 Vac~277 Vac |
| Max. power consumption | 2 W |
| Operating temperature | -25°C to +55°C |
| Dimensions | 18 mm × 98 mm × 66 mm |
| Mounting type | DIN rail |
| Ingress protection rating | IP20 |
| Altitude | ≤4000 m |

*External wireless interference might impact the device transmission distance and overall performance. Please be advised.