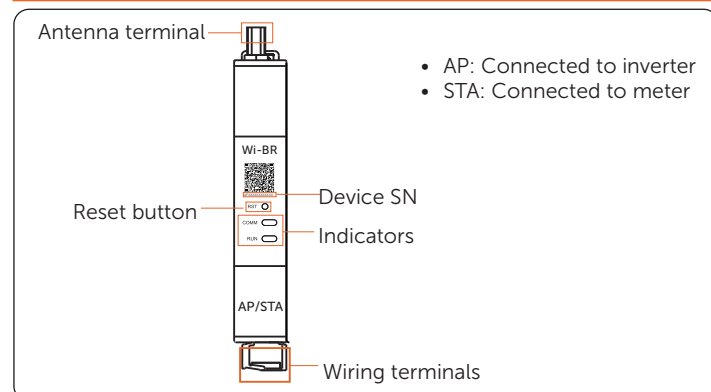
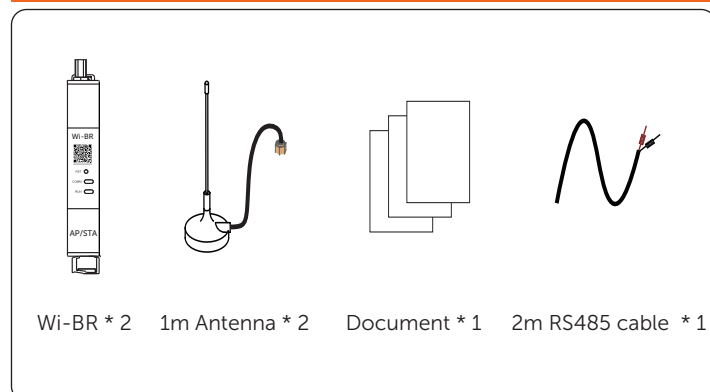


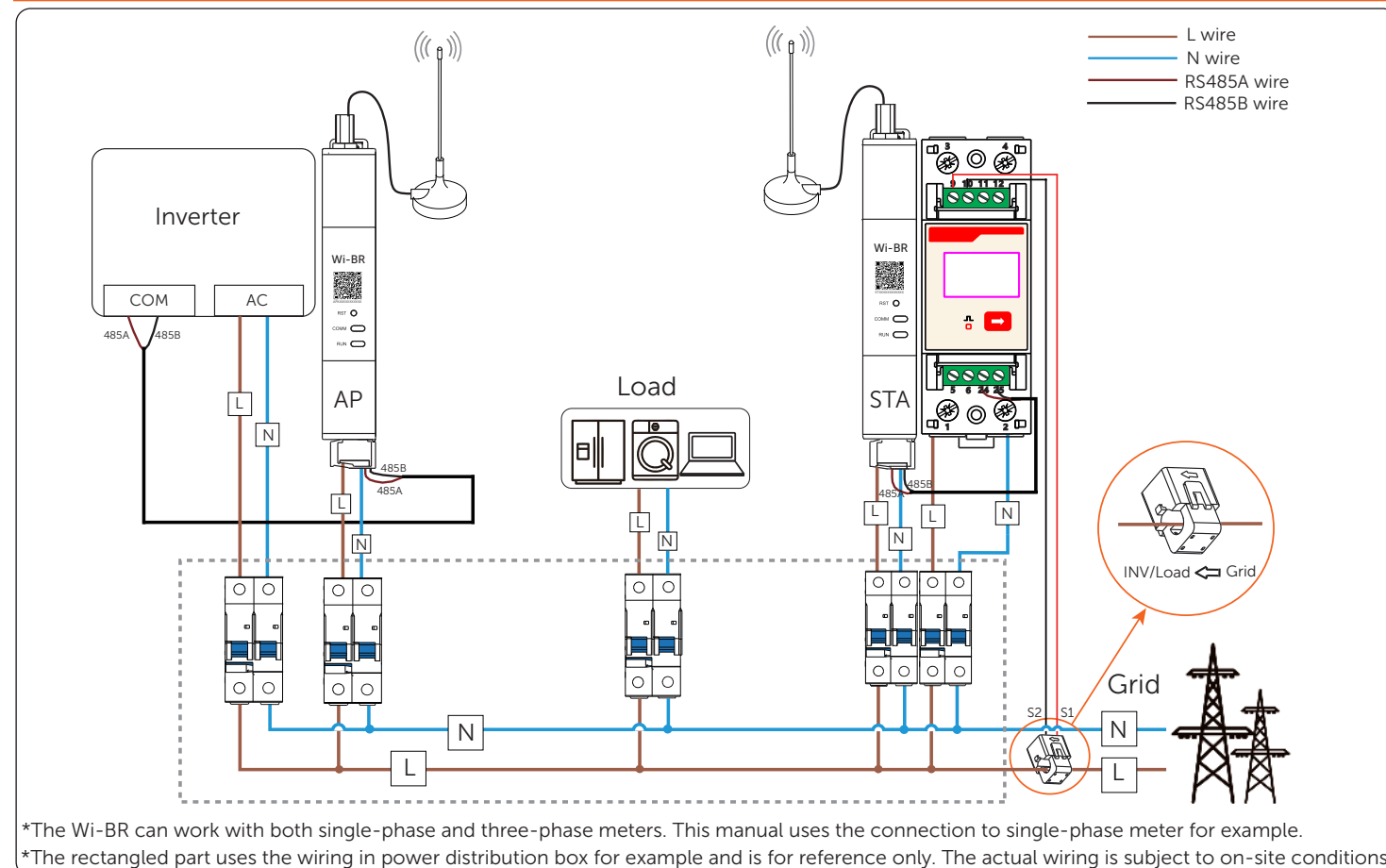
1 Product Introduction



2 Scope of Delivery



3 Typical System Wiring



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.

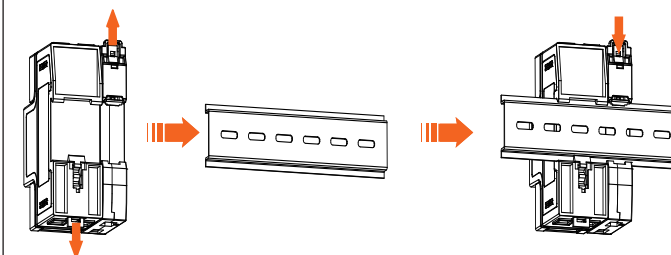


Figure 4-1 Mounting Wi-BR

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

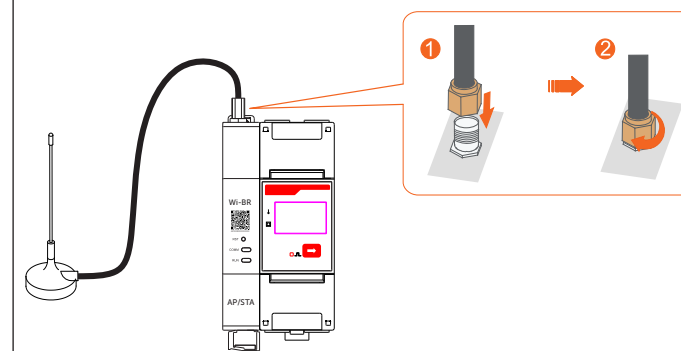


Figure 4-2 Installing the antenna

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

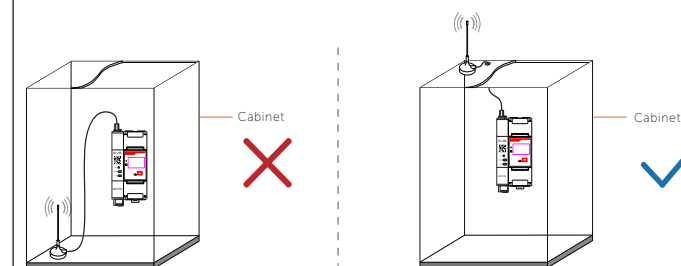


Figure 4-3 Fixing the antenna

NOTICE!

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	• X1-Mini G4 • X1-Boost G4 • X3-MIC G2	RJ45	4	485A	
			5	485B	
	X1-Smart G2	Quick-connect terminal	4 / 11	485A	
			5 / 12	485B	
	X3-PRO G2	O/I terminal	5	485A	
			6	485B	
	• X3-MEGA G2 • X3-FORTH	Quick-connect terminal	7	485A	
			8	485B	
		X1-AC	RJ45	7	485A
				8	485B
• X1-Hybrid LV • X1-Hybrid G4 • X1-Fit G4 • X1-IES • X3-Hybrid G4 • X3-Fit G4 • X3-IES • X3-ULTRA		RJ45	4	485A	
			5	485B	
Note: Two terminals of different types are available for Wi-BR on X1-Smart G2 and X3-Pro G2, and the pins in the same box are a pair.					

6 Configuration

NOTICE!
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

NOTICE!				
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 x 98 mm x 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.	