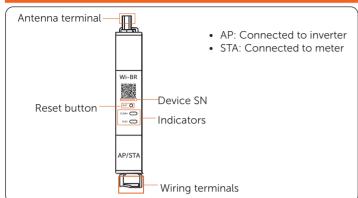
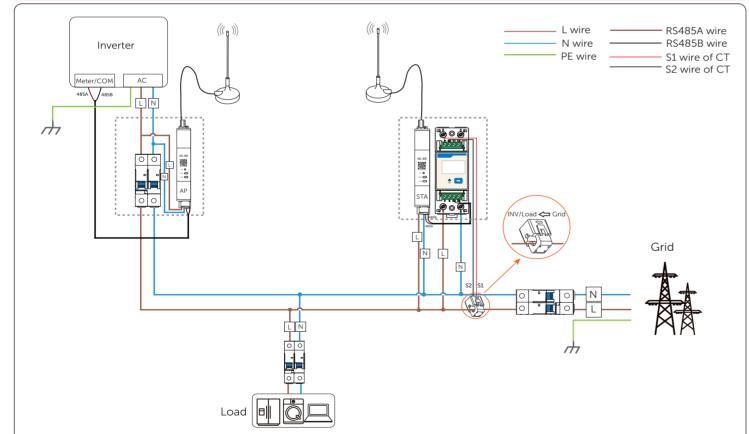
1 Product Introduction



2 Scope of Delivery



3 Typical System Wiring



*Wi-BR can work with both single-phase and three-phase meters. Here uses the connection to single-phase meter and European TN-S for example.
*Wi-BR is not waterproof. During installation, take proper waterproof measures, or place it in the power distribution cabinet or other waterproof box.

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.

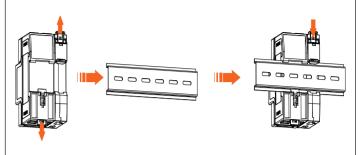


Figure 4-1 Mounting Wi-BR

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

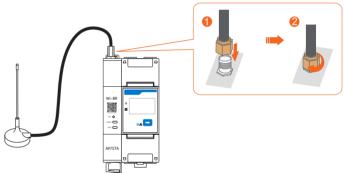


Figure 4-2 Installing the antenna

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

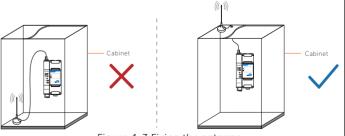


Figure 4-3 Fixing the antenna

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 series	Terminal type	Pin No.	Pin definition	
X1-HYB LV	COM	4	485A	
		5	485B	
X1-AC	Meter Weter	7	485A	
	Σ	8	485B	
X1-HYB G4X1-FIT G4X1-IES		4	485A	
X3-HYB G4X3-FIT G4X3-IES	Meter/CT	5	485B	
• X1-MINI G4	COM/CT	4	485A	
• X1-BOOST G4		5	485B	
	COMPCT	4/11	485A	
X1-SMART G2		5 / 12	485B	
X3-ULTRA	COM 2	4	485A	
		5	485B	
X3-MIC G2	(1) Res	4	485A	
AS-MIC GZ		5	485B	
X3-PRO G2		5	485A	
	RS 488	6	485B	
• X3-MEGA G2	30 20	7	485A	
• X3-FORTH	21 11	8	485B	

Note: Two terminals of different types are available for Wi-BR on X1-Smart 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

7 Indicator Description

seconds to pair them.

NOTICE!				
the pairin	ig mode af	ter you press t	fore delivery. The AP model enters the Reset button for 3 seconds, and no STA is detected.	
	Table 7	'-1 Indicator st	atus and description	
Indicator	Color	Status	Description	
		Solid green	Normal power supply, RS485 cable connection and antenna connection	
RUN -		Flashing green	Abnormal RS485 cable connection between AP and inverter, or between STA and meter	
		Off	No power supply	
		Solid green	AP and STA paired successfully.	
COMM -		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 Labels and Technical Data

	Table 9	-1 Label description
Label Description		
CE	,	EMC Directive 2014/30/EU, the LVD //35/EU, the RoHS Directive 2011/65/EU
Z	Conformity to	2012/19/EU (WEEE directive)
	in accordance antenna(s) used to provide a se all persons and	t must be installed and operated with provided instructions and the d for this transmitter must be installed paration distance of at least 20 cm from must not be co-located or operating in th any other antenna or transmitter.
	Table	e 9-2 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
Radio frequency		863-868 MHz: 13.709 dBm (Max EIRP)
Dimensions		18 mm × 98 mm × 66 mm
Mounting type		DIN rail
Ingress protection rating		IP20
Altitude		≤2000 m