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GW1118-8DI(3IN1)-RJ-P(12-48VDC) Modbus Gateway Quick Installation Guide

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【Package Checklist】

Please check whether the package and accessories are intact while using the device for the first time.

1. Modbus gateway
2. Lugs
3. Power adapter
4. Straight-through cable
5 Foot pad
6. Warranty card
7. Certification

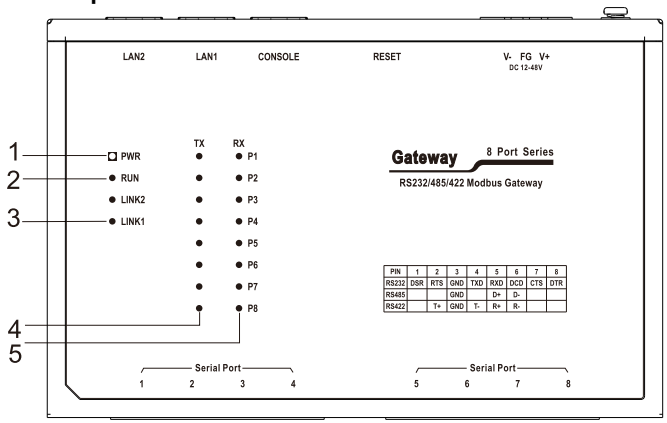
If any of these items are damaged or lost, please contact our company or dealers, we will solve it ASAP.

【Product Overview】

The product is MODBUS gateway devices. Model is: GW1118-8DI(3IN1)-RJ-P(12-48VDC) (8 RS-485/422/232 serial ports with isolation + 2 100M copper ports + 1 12~48VDC power supply).

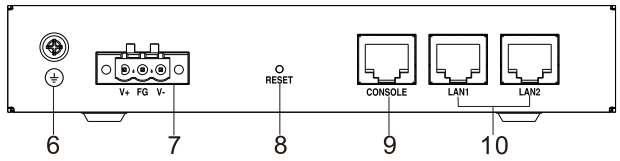
【Panel Design】

➢ **Top view**

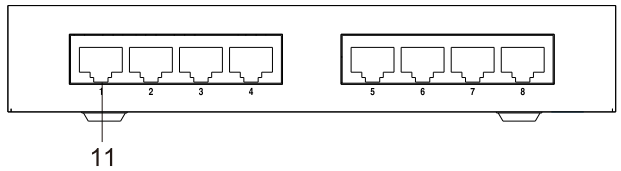


PIN	1	2	3	4	5	6	7	8
RS232	DSR	RTS	GND	TXD	RXD	DCD	CTS	DTR
RS485			GND		D+	D-		
RS422		T+	GND	T-	R+	R-		

➢ **Front View**



➢ **Rear View**



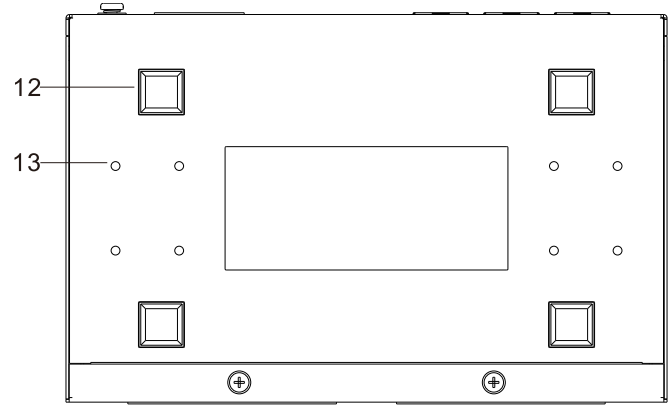
➢ **Left view**



➢ **Right view**



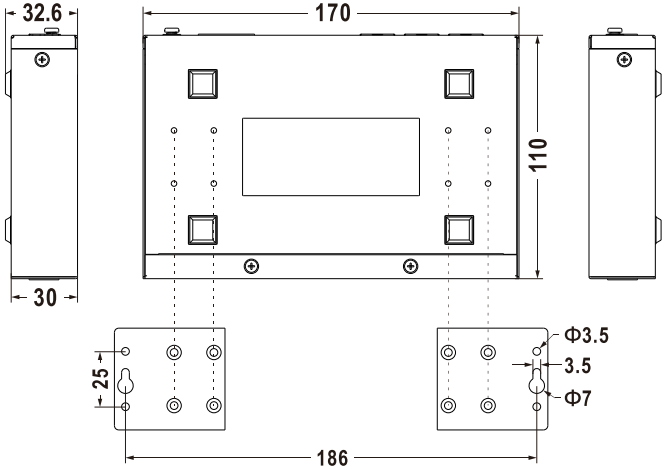
➢ **Bottom view**



1. Power indicator
2. Running indicator
3. Copper port connection indicator
4. Serial port transmission data indicators
5. Serial port receiving data indicators
6. Grounding screw
7. Terminal blocks for power input
8. Reset button
9. Console port
10. 100M copper port
11. RS-485/422/232 serial port
12. Foot pad
13. Wall-mounting location hole

【Mounting Dimension】

Unit: mm

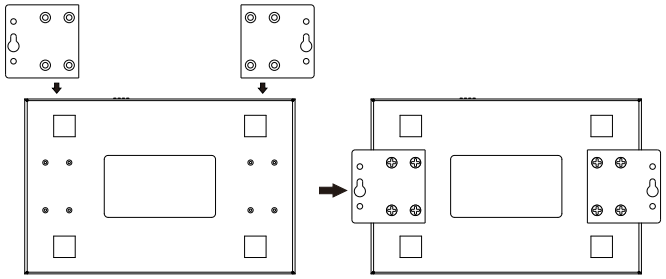


Notice Before Mounting:

- Don't place or install the device in area near water or moist, keep the relative humidity of the device surrounding between 5%~95% without condensation.
- Before power on, first confirm the supported power supply specification to avoid over-voltage damaging the device.
- The device surface temperature is high after running; please don't directly contact to avoid scalding.

【Wall-mounted Device Mounting】

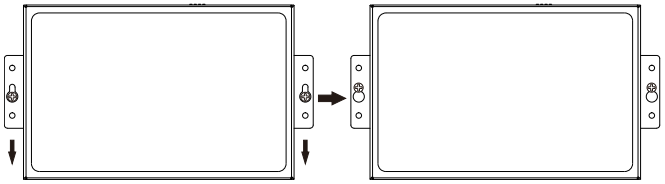
Step 1 Adopt M3 screw to install the left/right mounting board on the device backboard.



Step 2 On the wall of device mounting, place the device on the wall for reference or refer to the mounting dimension to mark two screw positions.

Step 3 Nail M4 screws on the wall and keep 2mm interspace reserved.

Step 4 Hang the device on two screws and slide downward, then tighten the screw to enhance stability, mounting ends.



【Wall-mounted Device Disassembling】

Step 1 Device power off.

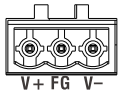
Step 2 Unscrew the screw on the wall about 2mm.

Step 3 Lift the device upward slightly; take out the device, disassembling ends.

Notice before power on:

- Power ON operation: First insert the power supply terminal block into the device power supply interface, and then plug the power supply plug contact and power on.
- Power OFF operation: first unpin the power plug, then remove the power line, please note the operation order above.

【Power Supply Connection】

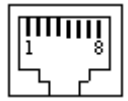


This device supports 1 DC power input, and provides 3-Pin 5.08mm pitch terminal blocks, in which V+ and V- are DC input, FG is the power grounding input; The power supply supports non-polarity, power supply range: 12～48VDC.

【Reset Button Setting】

This device provides 1 reset button, press the button for 4-5S then release it to restore factory defaults.

【Serial Port Connection】



This device provides 8 3IN1 serial ports, which support RS232, RS485 and RS422 at the same time. The interface type is RJ45 and its pin definitions are as follows:

PIN	1	2	3	4	5	6	7	8
RS-232	DSR	RTS	GND	TXD	RXD	DCD	CTS	DTR
RS-485	—	—	GND	—	D+	D-	—	—
RS-422	—	T+	GND	T-	R+	R-	—	—

【Checking LED Indicator】

The device provides LED indicators to monitor the device working status with a comprehensive simplified troubleshooting; the detailed status of each LED is described in the table as below:

LED	Indicate	Description
PWR	ON	PWR is connected and running normally
	OFF	PWR is disconnected and running abnormally
RUN	Blinking	The system is running normally
	OFF	The system is not running or running abnormally
	ON	System is running abnormally
LINK (1-2)	ON	Copper port has established an active network connection.
	Blinking	Copper port is in a network activity state.
	OFF	Copper port has not established an active network connection
TX (1-8)	OFF	Serial port is not transmitting data or transmitting data abnormally
	Blinking	Serial port is transmitting data.
RX (1-8)	OFF	Serial port is not receiving data

		or receiving data abnormally
	Blinking	Serial port is receiving data

【Logging in to WEB Interface】

This device supports WEB management and configuration. Computer can access the device via Ethernet interface. The way of logging in to device's configuration interface via IE browser is shown as below:

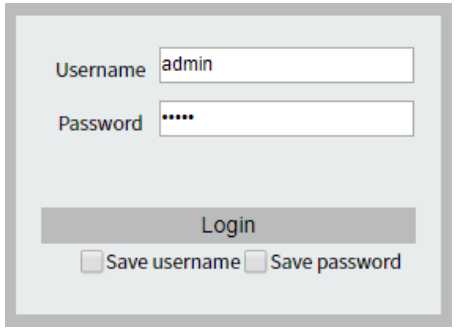
Step 1 Configure the IP addresses of computer and the device to the same network segment (The network segment of Network Port 1 is 1, and the network segment of network port 2 is 8), and the network between them can be mutually accessed.

Step 2 Enter device's IP address in the address bar of the computer browser.

Network Port 1: http://192.168.1.254/

Network Port 2: http://192.168.8.254/

Step 3 Enter device's username and password in the login window as shown below.



Step 4 Click "OK" button to login to the WEB interface of the device.

Note:

- The default IP address of the device network port 1 is "192.168.1.254", port 2 is "192.168.8.254".
- The default user name and password of the device are "admin".
- If the user name or password is lost, user can restore it to factory settings via restore button or management software; all modified configurations will be cleared after restoring to factory settings, so please backup configuration file in advance.
- Please refer to user manual for specific configuration method of logging in to WEB interface and other configurations about network management function.

【Specification】

Panel	
100M Copper Port	10/100Base-T(X) self-adapting RJ45 port
Serial Port	3IN1 RJ45 interface with isolation
Indicator	Power indicator, Running indicator, Copper port connection indicator, Serial port transmission and receiving data indicator
Power Supply	
Input power supply	12~48VDC
Access terminal block	3 pins 5.08mm pitch terminal blocks
Power Consumption	
No-load	3.4W@12VDC
Full-load	4.1W@12VDC
Working Environment	
Working temperature	-40~75℃
Storage temperature	-40~85℃
Working humidity	5%～95%(no condensation)
Protection grade	IP40(metal shell)