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Make network communication more reliable

GW1101-1DI(3IN1)-DB-P(12-48VDC) Modbus Gateway Quick Installation Guide

3onedata Co., Ltd.

Address: 3/B, Zone 1, Baiwangxin High Technology Industrial Park, Xili, Nanshan District, Shenzhen

Website: www.3onedata.com

Tel: +86 0755-26702688

Fax: +86 0755-26703485

【Package Checklist】

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

1. Modbus gateway × 1
2. Power adapter
3. Straight-through cable
4. Certification
5 Warranty card

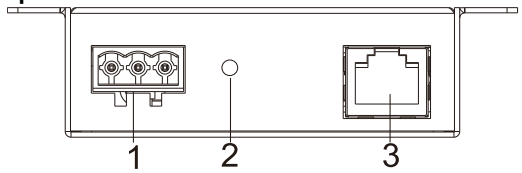
If any of these items are damaged or lost, please contact our company or dealers, we will solve it ASAP.

【Product Overview】

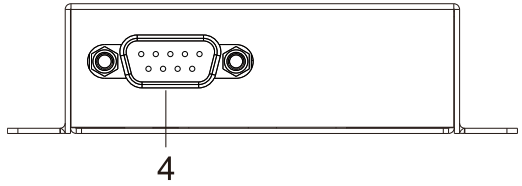
The product is managed wall-mounted industrial Modbus gateway.The model is GW1101-1DI(3IN1)-DB-P(12-48VDC) (1 3IN1 serial port with isolation +1 100M copper port + 1 12~48VDC power supply).

【Panel Design】

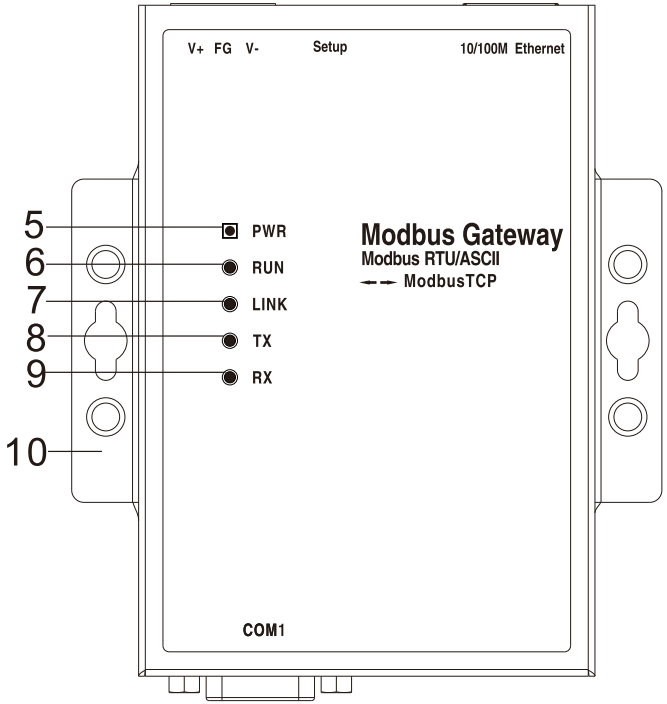
➢ **Top view**



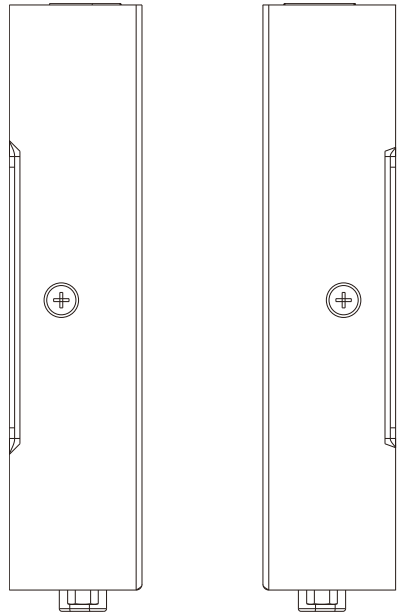
➢ **Bottom view**



➢ **Front View**



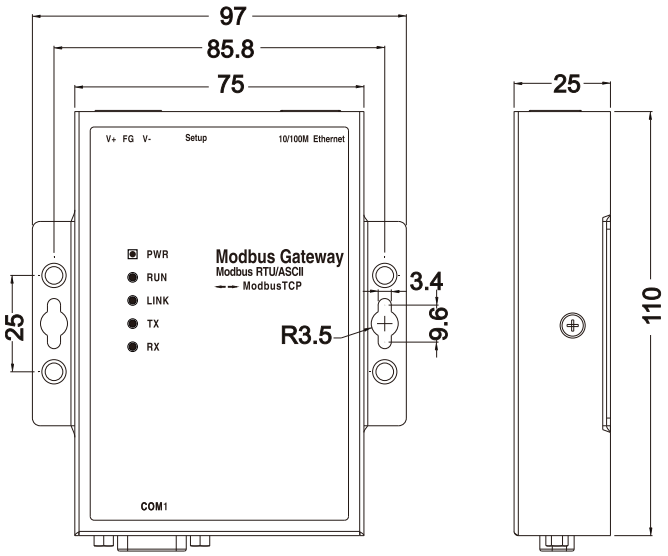
➢ **Left view and right view**



1. Terminal block for power input
2. Reset button
3. 100M copper port
4. RS-232/485/422 3IN1 serial port
5. Power supply indicator PWR
6. Running indicator RUN
7. Copper port indicator LINK
8. Serial port transmitting indicator
9. Serial port receiving indicator
10. Lug

【Mounting Dimension】

Unit: mm



Notice Before Mounting:

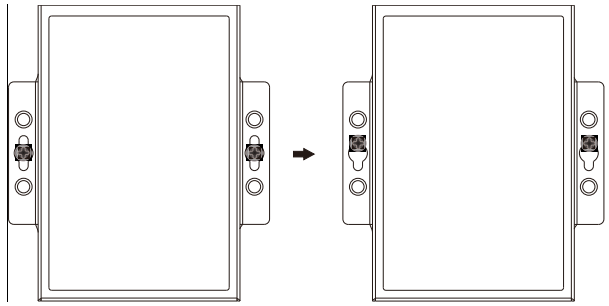
- Don't place or install the device in area near water or moist, keep the relative humidity of the device surrounding between 5%~95% without condensation.
- Before power on, first confirm the supported power supply specification to avoid over-voltage damaging the device.
- The device surface temperature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

【Wall-mounted Device Mounting】

Step 1 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 2 Nail M4 screws on the wall and keep 2mm interspace reserved.

Step 3 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.

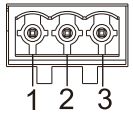
Step 2 Unscrew the screw on the wall about 2mm.

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】



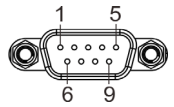
This device provides 1 DC power supply which is 3-pin 5.08mm pitch terminal block, the power supply supports non-polarity. Power supply range: 12~48VDC. The pin definitions of the terminals are shown as follows:

PIN	1	2	3
Definition	V+	FG	V-

【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 1 3IN1 serial port, which supports RS232, RS485 and RS422 at the same time. The interface type is DB9 male and its pin definitions are as follows:

PIN	RS-232	RS-422	RS-485
1	DCD	T-	—
2	RXD	T+	—
3	TXD	R+	D+
4	DTR	R-	D-
5	GND	GND	GND
6	DSR	—	—
7	RTS	—	—
8	CTS	—	—
9	—	—	—

【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	ON	The device is powered on or the device is abnormal.
	OFF	The device is powered off or the device is abnormal.
	Blinking	Blink once per second, device is running normally.
LINK	ON	Copper port has established an active network connection.
	Blinking	Copper port is in a network activity

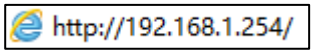
		state.
	OFF	Copper port has not established an active network connection.
TX	OFF	No data or abnormal data is being transmitted through serial port.
	Blinking	Serial port is transmitting data.
RX	OFF	Serial port is not receiving data or receiving data abnormally
	Blinking	Serial port is receiving data.

【Logging in to WEB Interface】

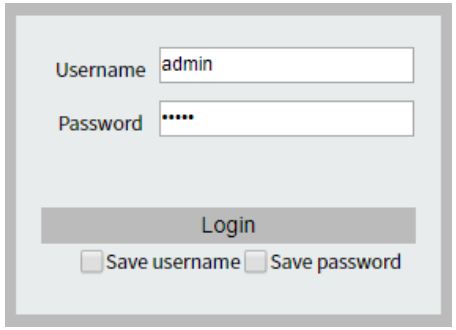
This device supports WEB management and configuration. Computer can access the device via Ethernet interface. The way of logging in to device's configuration interface via IE browser is shown as below:

Step 1 Configure the IP addresses of computer and the device to the same network segment, and the network between them can be mutually accessed

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



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 is "192.168.1.254".
- The default user name and password of the device is "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	RS-232/485/422 3IN1 serial port, DB9 interface
Indicator	Power indicator, network Link/Act indicator, serial port transmission and receiving data indicator, running indicator
Power Supply	
Input power supply	12～48VDC
Access terminal block	3-pin 5.08mm pitch terminal blocks
Power Consumption	
No-load	0.9W@12VDC
Full-load	1.1W@12VDC
Working Environment	
Working temperature	-40~75℃
Storage temperature	-40~85℃
Working humidity	5%~95%(no condensation)
Protection grade	IP40 (metal shell)

【Disposal of Waste Electrical and Electronic Equipment (WEEE 2012/19/EU)】

(Applicable in the EU-member states)



The crossed-out wheeled bin symbol on the equipment or its packaging indicates that the product, at the end of its service life, shall not be mixed with unsorted municipal waste but should be collected separately, in accordance with local laws and regulations.

A proper separate collection of end-of-life equipment for the subsequent recycling, treatment and environmentally compatible disposal, will help prevent potential damage to the environment and human health, facilitating the reuse, recycling and/or recovery of its component materials.

Private users should contact their vendor or municipal waste management service and ask for disposal information.

Professional users should contact their suppliers and check the terms of their selling agreement.

This product must not be disposed of with other commercial waste.

Users' cooperation in the correct disposal of this product will contribute to saving valuable resources and protecting the environment.