

3onedata GW1101-1DI Modbus Gateway



# 3onedata GW1101-1DI Modbus Gateway Installation Guide

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**3onedata GW1101-1DI Modbus Gateway**



### Specifications:

- Model: GW1101-1DI(3IN1)-DB-P(12-48VDC) Modbus Gateway
- Supported Interface: RS232, RS485, RS422
- Power Supply Range: 12-48VDC

### Product Overview:

The GW1101-1DI(3IN1)-DB-P(12-48VDC) Modbus Gateway is a wall-mounted industrial Modbus gateway with the following features:

- 1 x 3IN1 serial port with isolation
- 1 x 100M copper port
- 1 x 12-48VDC power supply

### Package Checklist:

Ensure the package includes:

1. Straight-through cable
2. Certification
3. Warranty card

### Mounting Dimension

Unit: mm

### Serial Port Connection:

The device provides 1 x 3IN1 serial port with DB9 male interface supporting RS232, RS485, and RS422 simultaneously.

### **Wall-mounted Device Disassembling:**

Follow these steps to disassemble the device:

1. Power off the device.
2. Unscrew the screw on the wall about 2mm.
3. Lift the device upward slightly to disassemble.

### **Wall-mounted Device Mounting:**

Follow these steps to mount the device:

1. Mark screw positions on the wall based on mounting dimensions.
2. Nail M4 screws on the wall with 2mm interspace reserved.
3. Hang the device on the screws and tighten them to enhance stability.

### **Power Supply Connection:**

This device supports a DC power supply with a range of 12-48VDC.  
The power supply terminal block has the following pin definitions:  
V+, FG, V-.

### **Reset Button Setting:**

To restore factory defaults, press the reset button for 4-5 seconds then release it.

### **Checking LED Indicator:**

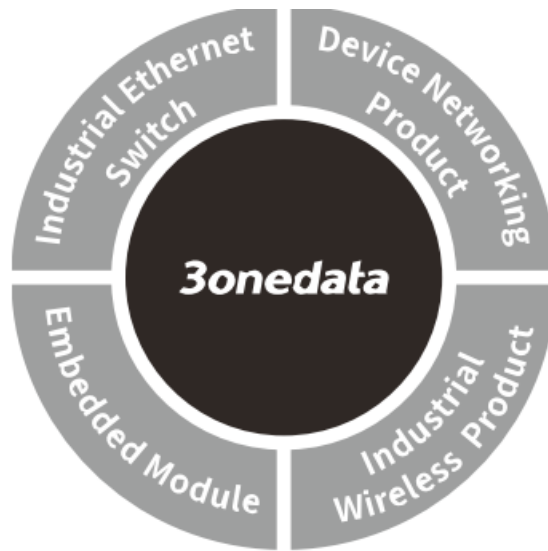
The LED indicators provide device status monitoring. Refer to the user manual for detailed LED status descriptions.

## **FAQ**

### **Q: What should I do if any package items are damaged or lost?**

A: Please contact our company or dealers for resolution as soon as possible.

GW1101-1DI(3IN1)-DB-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.

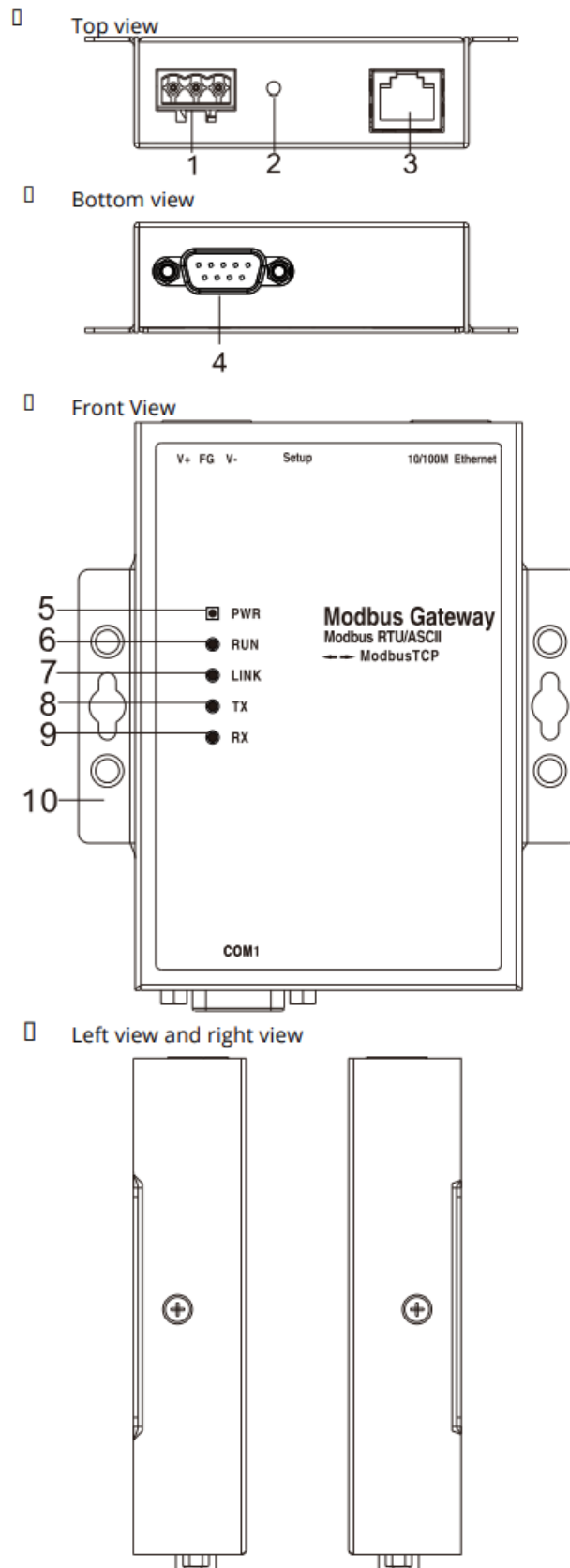
1. Modbus gateway × 1
2. Power adapter
3. Straight-through cable
4. Certification
- 5 Warranty card

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



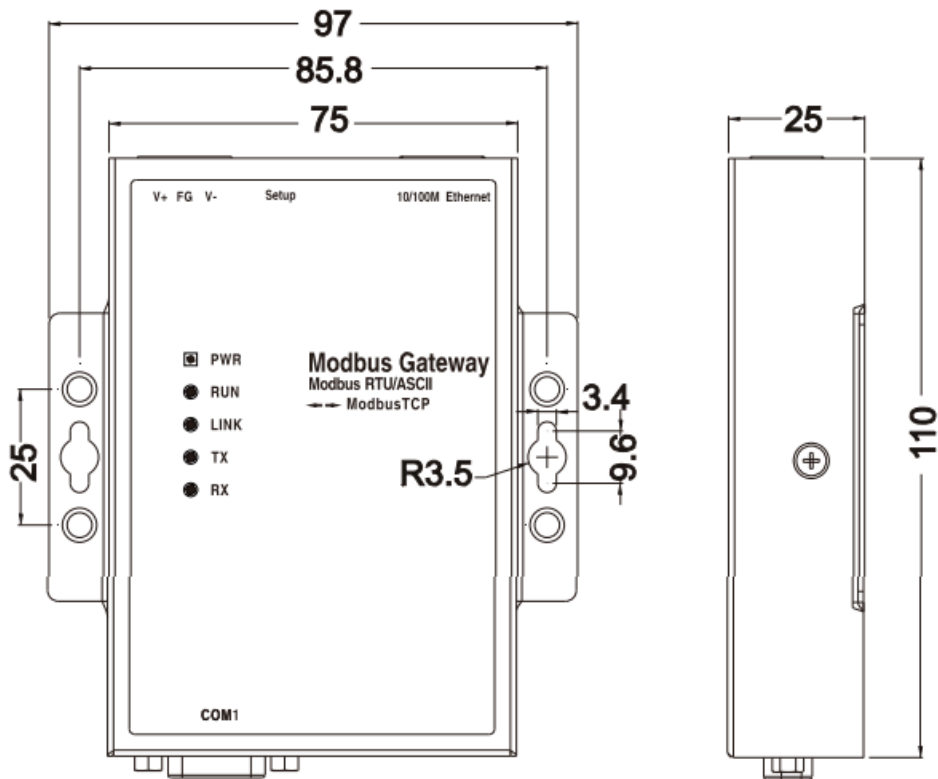
1. Terminal block for power input
2. Reset button
3. 100M copper port
4. RS-232/485/422 3IN1 serial port
5. Power supply indicator PWR
6. Running indicator RUN
7. Copper port indicator LINK

8. Serial port transmitting indicator Serial port receiving indicator

9. 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

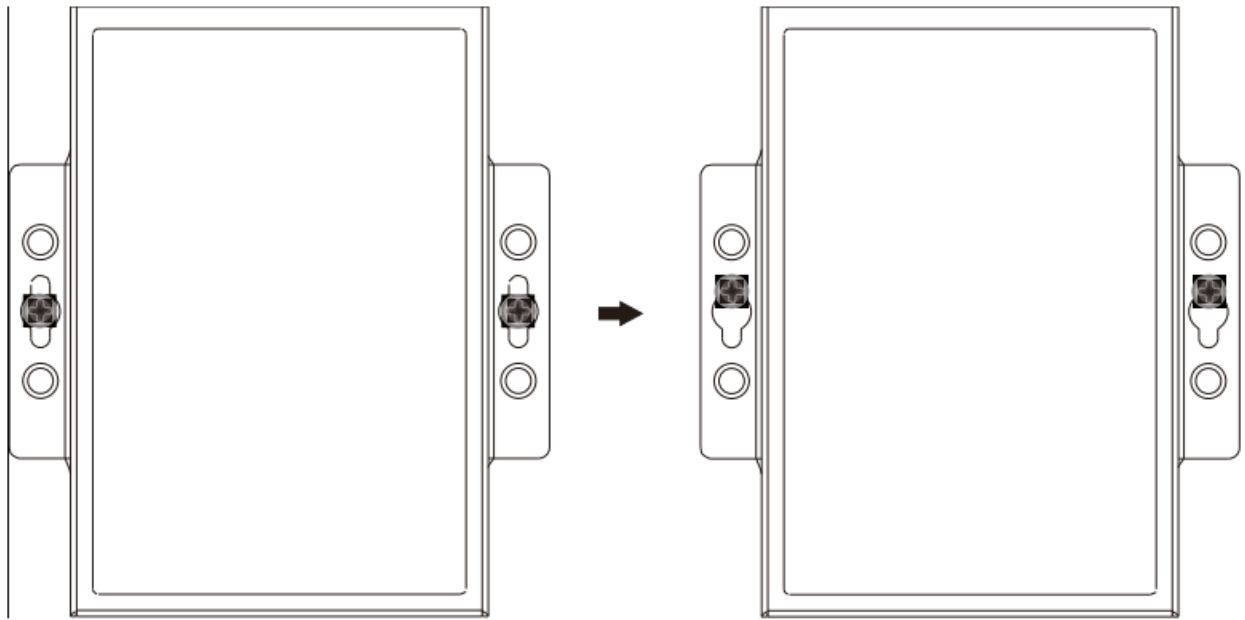
On the wall of device mounting, place the device on the wall for reference or refer to the mounting dimension to mark two screw positions.

### • 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

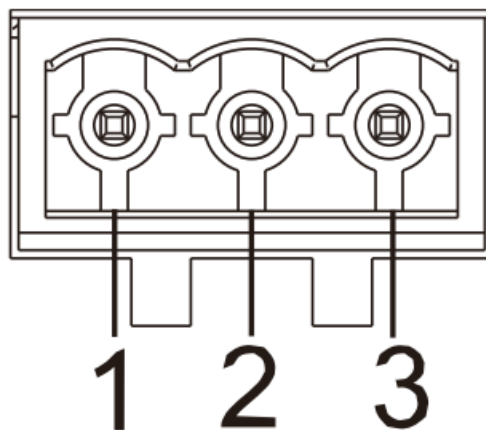
- **Step 1**  
Device power off.
- **Step 2**  
Unscrew the screw on the wall about 2mm.
- **Step 3**  
Lift the device upward slightly; take out the device, disassembling ends.

### 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:



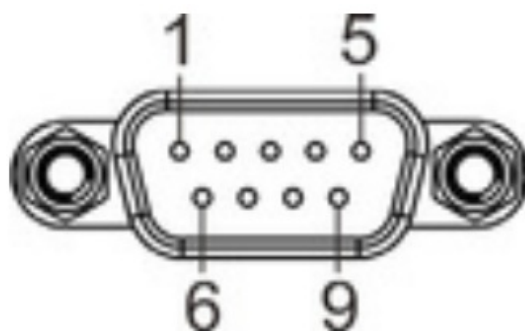
PIN	1	2	3
Definition	V+	FG	V-

## 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	–	T+	D+
2	RXD	T-	D-
3	TXD	R+	–
4	DTR	R-	–
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:



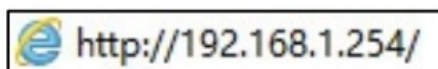
LED	Indicate	Description
PWR	ON	PWR is connected and running normally
	OFF	PWR is disconnected and running abnormally
RUN	ON	The device is powered on or the device is abnormal.
	OFF	The device is powered off or the device is abnormal.
	Blinking	Blink once per second, device is running normally.
LINK	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
	Blinking	receiving data abnormally
		Serial port is receiving data.

## Logging in to WEB Interface

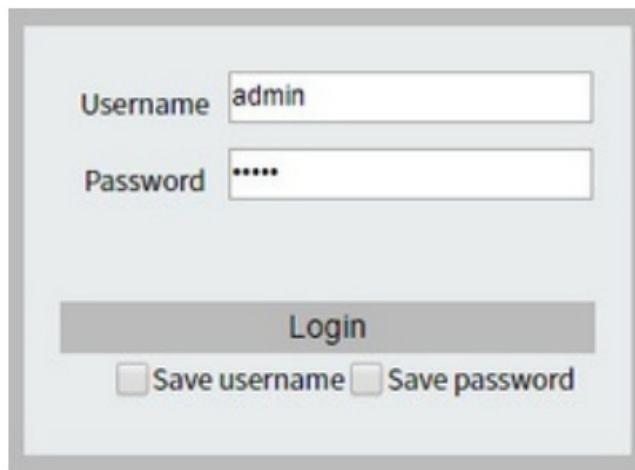
This device supports WEB management and configuration. Computer can access the device via Ethernet interface. The way of logging in to device's configuration interface via IE browser is shown as below:

- 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.

A login form with a light gray background and a thin gray border. It contains two input fields: 'Username' with the text 'admin' and 'Password' with five dots. Below the fields is a wide gray button labeled 'Login'. At the bottom are two checkboxes, 'Save username' and 'Save password', both of which are unchecked.

Username admin

Password .....

Login

☐ Save username ☐ Save password

- **Step 4**

Click “OK” button to login to the WEB interface of the device.

**Note**

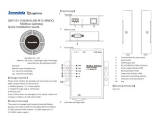
- The default IP address of the device is “192.168.1.254”. The default user name and password of the device is “admin”.
- If the user name or password is lost, user can restore it to factory settings via restore button or management software; all modified configurations will be cleared after restoring 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,
Indicator	DB9 interface Power indicator, network Link/Act indicator, serial port transmission and receiving data indicator,
Power Supply	running indicator
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°C
Storage temperature	-40~85°C
Working humidity	5% 95%(no condensation)

**Protection grade:** IP40 (metal shell)

## Documents / Resources

	<a href="#">3onedata GW1101-1DI Modbus Gateway</a> [pdf] Installation Guide GW1101-1DI Modbus Gateway, GW1101-1DI, Modbus Gateway
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## References

- [3onedata | Industrial Communication Solutions](#)
- [User Manual](#)

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