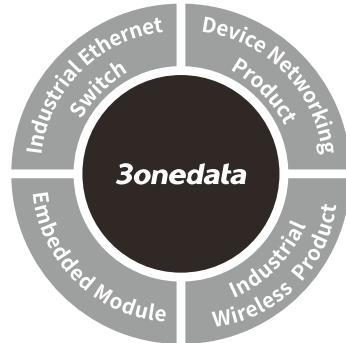


## GW1102-2D(RS-485)-TB-P(12-48VDC) Modbus Gateway Quick Installation Guide



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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. Power adapter
- 3. Straight-through cable
- 4. Certification
- 5. Warranty card

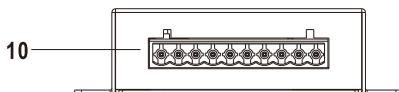
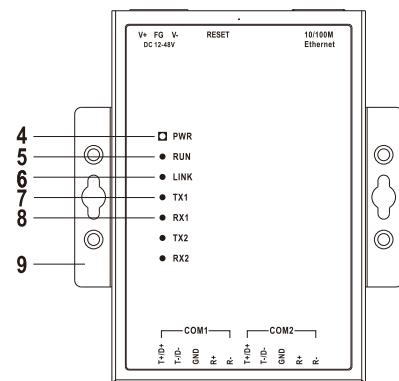
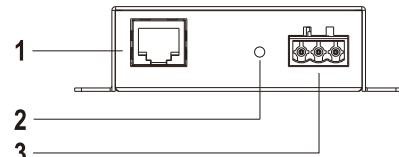
If any of these items are damaged or lost, please contact our company or dealers, we will solve it ASAP.

### 【Product Overview】

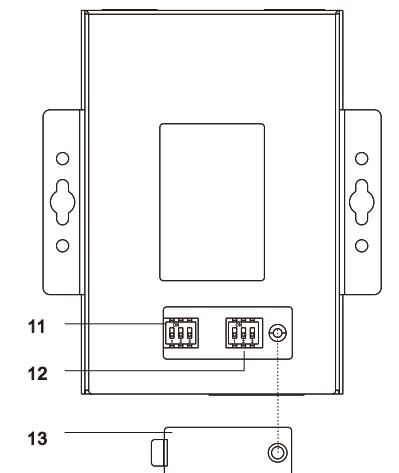
The product is managed wall-mounted MODBUS gateway. The model is GW1102-2D(RS-485)-TB-P(12-48VDC) (2 RS-485/422 serial ports + 1 100M copper port + 1 12~48VDC power supply).

### 【Panel Design】

#### ➤ Top view, main view and bottom view



#### ➤ Rear view

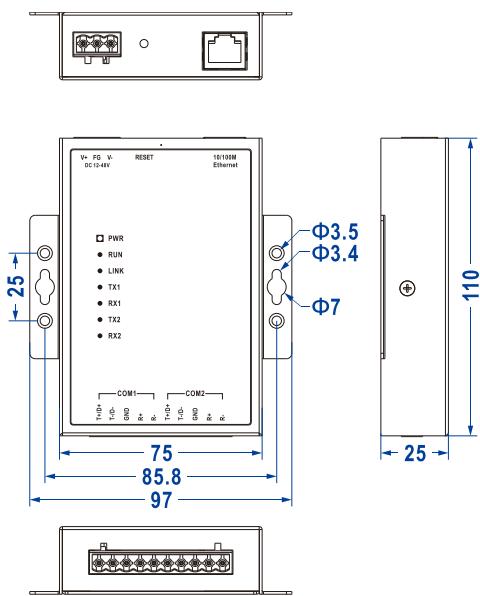


- 1. 100M copper port
- 2. Reset button

- 3. Terminal block for power input
- 4. Power supply indicator PWR
- 5. Running indicator RUN
- 6. Copper port indicator LINK
- 7. Transmitting indicator of serial port TX1-TX2
- 8. Receiving indicator of serial port RX1-RX2
- 9. Lugs
- 10. RS-485/422 serial port COM1-COM2
- 11. Corresponding DIP switch of COM2
- 12. Corresponding DIP switch of COM1
- 13. Cover plate for DIP switch

### 【Mounting Dimension】

Unit: mm



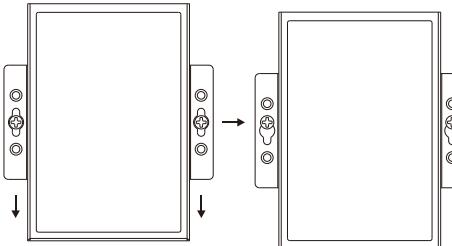
#### Notice Before Mounting:

- 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】

- 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.
- Nail M4 screws on the wall and keep 2mm interspace reserved.
- Hang the device on two screws and slide downward, then tighten the screw to enhance stability, mounting ends.



## 【Wall-mounted Device Disassembling】

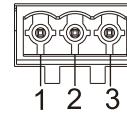
- Power off the device.
- Unscrew the screw on the wall about 2mm.
- Lift the device upward slightly; take out the device, disassembling ends.



### 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】

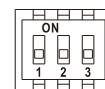


PIN	1	2	3
Definition	V+	FG	V-

## 【Reset Button Setting】

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

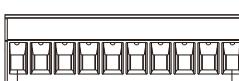
## 【DIP Switch Setting】



The device provides 3 DIP switches for 2 serial ports respectively, and the switches are located on the back of the device, which can be seen by opening the cover plate. In which "ON" is the enable end. The DIP switches are defined as follows.

No.	Definition	Operation	Description
1	Set the D-pull-down resistance to 1K.	Set the switch to ON	If the switch is not set to ON, the pull-down resistance is 150K.
2	Set the D+ pull-up resistance to 1K.	Set the switch to ON	If the switch is not set to ON, the pull-up resistance is 150K.
3	Set the terminal resistance to increase by 120 $\Omega$	Set the switch to ON	—

## 【Console Port Connection】



1 10

This device provides 2 RS-485/422 serial ports, support RS-485 or RS-422, and interface adopts 10-pin terminal blocks. The pin definitions

are shown in the following table:

COM	COM1					COM2				
PIN	1	2	3	4	5	6	7	8	9	10
RS-485	D+	D-	GND	—	—	D+	D-	GND	—	—
RS-422	T+	T-	GND	R+	R-	T+	T-	GND	R+	R-

## 【Checking LED Indicator】

The device provides LED indicators to monitor its operating status, which has simplified the overall troubleshooting process. The function of each LED is described in the table below:

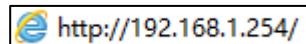
LED	Indicate	Description
PWR	ON	PWR is connected and running normally
	OFF	PWR is disconnected or running abnormally
RUN	ON	The device is powering on or the device is abnormal.
	OFF	The device is powered off or the device is abnormal.
	Blinking	Blinking 1 time per second, the device is running normally.
LINK	ON	The copper port has established an active network connection.
	Blinking	The copper port is in an active network status
	OFF	The copper port has not established an active network connection.
TX1-TX2	OFF	The serial port is not transmitting data or transmitting data abnormally
	Blinking	The serial port is transmitting data.
RX1-RX2	OFF	The serial port is not receiving

		data or receiving data abnormally
Blinking		The 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 "Login" 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 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	RS-485/422 serial port, 10-pin 5.08mm pitch terminal blocks
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	0.8W@12VDC (high temperature)
Full-load	0.8W@12VDC (high temperature)
Working Environment	
Working temperature	-40~75°C
Storage temperature	-40~85°C
Working humidity	5%~95% (no condensation)
Protection grade	IP40 (metal shell)