3onedata CSE H10A1LE-47 Modbus Gateway Installation Guide

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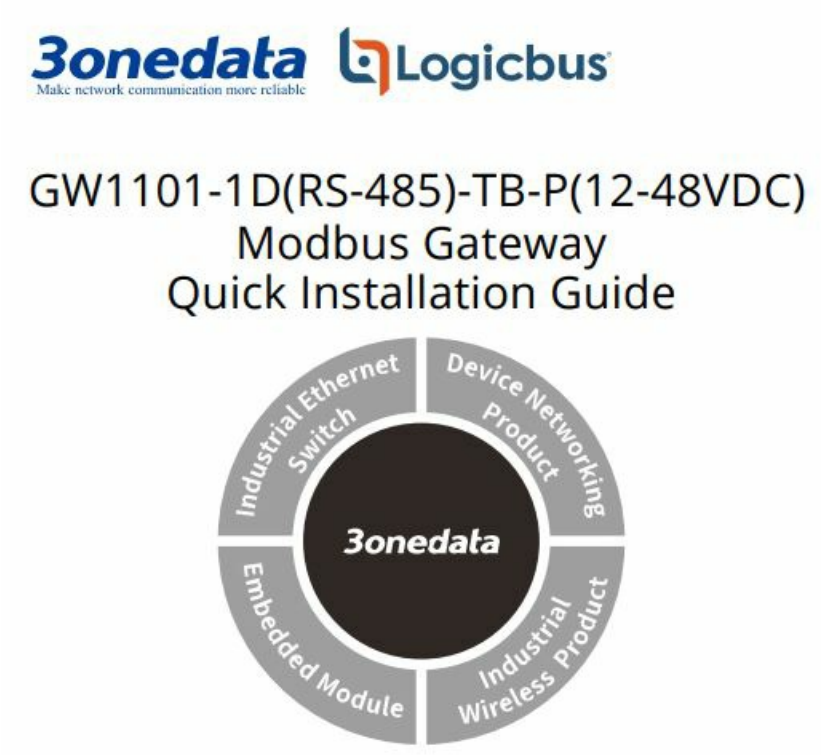
Installation Guide



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Contents

Package Checklist

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

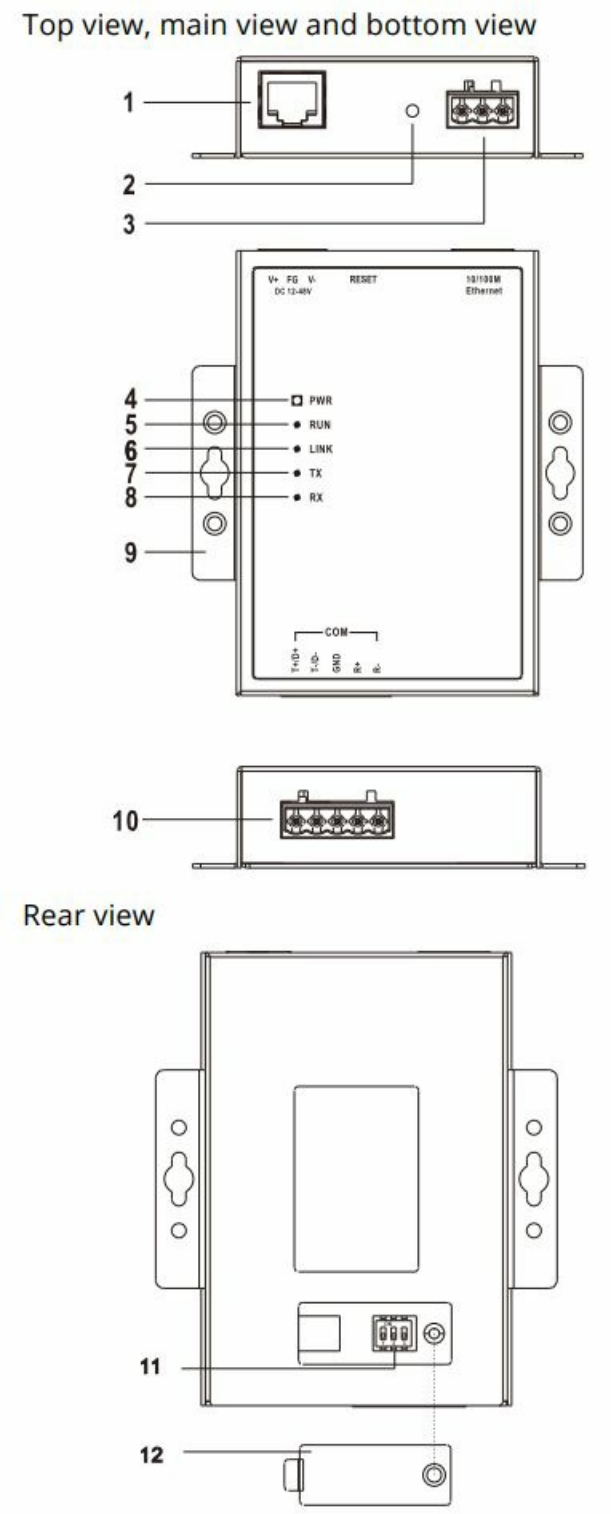
1. Modbus gateway
2. Power adapter
3. Straight-through cable
4. Certification
5. Warranty card

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 industrial MODBUS gateway. The model is GW1101-1D(RS-485)-TB-P(12-48VDC)
(1 RS-485/422 serial port + 1 100M copper port + 1
12~48VDC power supply).

Panel Design

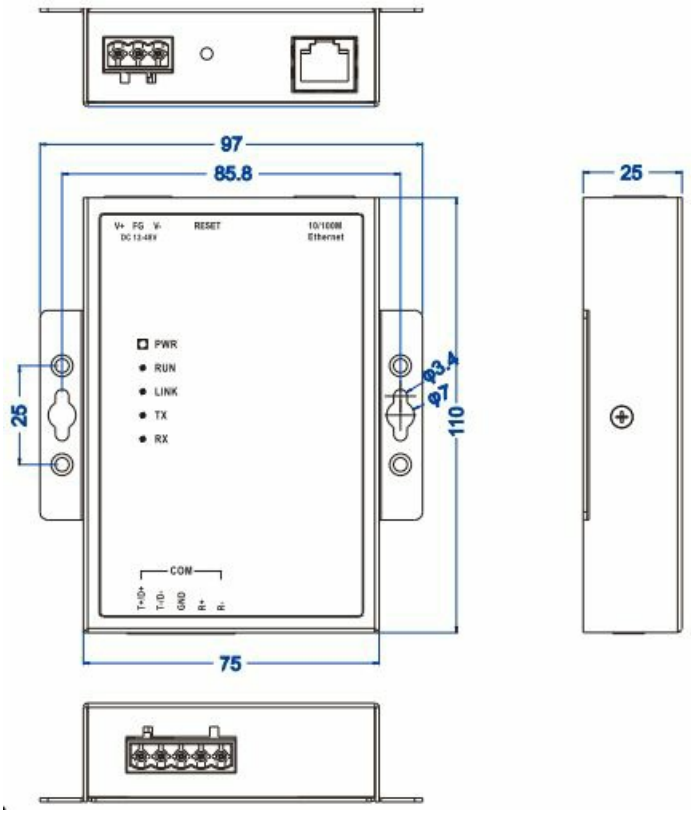


1. 100M copper port
2. Reset button
3. Terminal block for power input
4. Power supply indicator PWR
5. Running indicator RUN
6. Copper port indicator LINK
7. Serial port transmitting indicator
8. Serial port receiving indicator
9. Lugs
10. RS-485/422 serial port
11. Corresponding DIP switch of COM

12. Cover plate for DIP switch

Mounting Dimension

Unit: mm

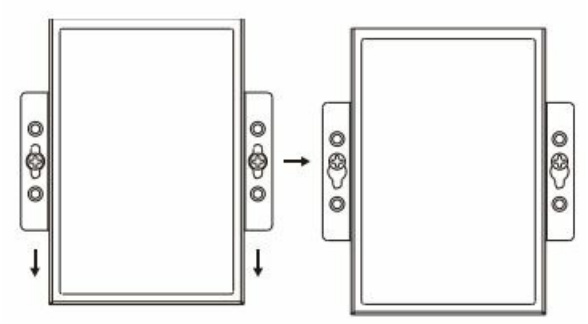


⚠ Notice Before Mounting:

- 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

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.



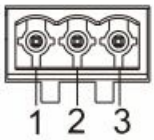
Wall-mounted Device Disassembling

Step 1 Power off the device. 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



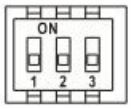
This device provides 1 DC power supply which is 3-pin 5.08mm pitch terminal blocks, the power supply supports non-polarity. Voltage range: 12~48VDC. The pin definitions of the terminals are shown as follows:

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.

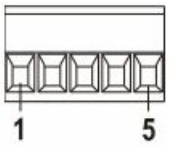
DIP Switch Setting



The device provides 3 DIP switches for serial ports, and the switch is 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 switch is 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 120Ω	Set the switch to ON	—

Console Port Connection



This device provides 1 RS-485/422 serial port, support RS-485 or RS-422, and Interface adopts 5-pin 5.08mm pitch terminal blocks.

The pin definitions are shown in the following table:

PIN	1	2	3	4	5
RS-485	D+	D-	GND	—	—
RS-422	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.
TX	OFF	The serial port is not transmitting data or transmitting data abnormally
	Blinking	The serial port is transmitting data.
RX	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 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 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 theirs suppliers and check the terms of their selling agreement. This product must not be disposed with other commercial waste. Users’ cooperation in the correct disposal of this product will contribute to save valuable resources and protect the environment.

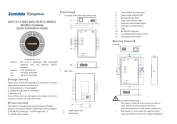
Specification

Panel	
100M Copper Port	10/100Base-T(X) self-adapting RJ45 port
Serial Port	RS-485/422 serial port, 5-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℃
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 equipment or its packaging indicates that the product, at the end of its service life, shall not be mixed with unsorted

Documents / Resources

	3onedata CSE H10A1LE-47 Modbus Gateway [pdf] Installation Guide CSE H10A1LE-47 Modbus Gateway, CSE H10A1LE-47, Modbus Gateway, Gateway

References

- 3onedata | Industrial Communication Solutions
- User Manual