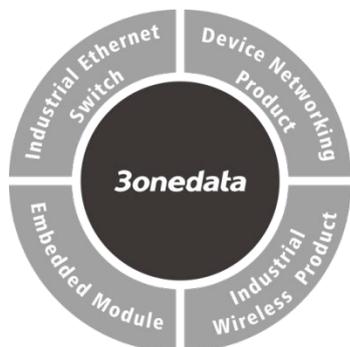


GW1118 Series Modbus Gateway Quick Installation Guide



3onedata Co., Ltd.

Address: 3/B, Zone 1, Baiwangxin High Technology Industrial Park, Song Bai Road, Nanshan District, Shenzhen, 518108, China

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 Quick installation guide x1 |
| 3 CD x1 | 4 Lug x2 |
| 5 Power adapter x1 | 6 Qualify certificate x1 |
| 7 Straight-through cable x1 | 8 Warranty card x1 |
| 9 Foot pad x4 | |

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

【Product Overview】

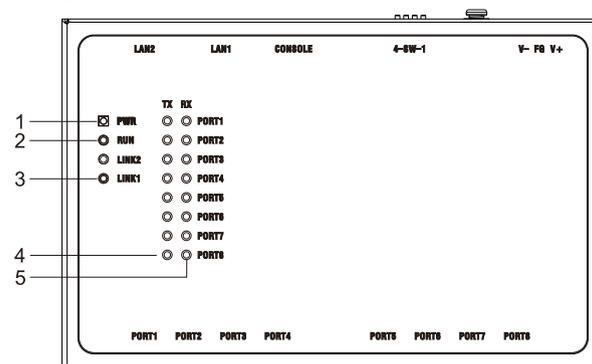
The series products are MODBUS gateway devices. Models are as follows:

Model I GW1118-8D(3IN1) (8 RS-485/422/232 serial ports + +2 100M copper port)

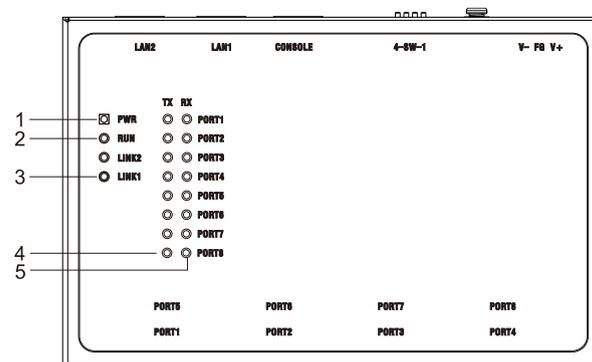
Model II GW1118-8DI(RS-485) (8 RS-485/422 serial port with isolation + +2 100M copper port)

【Panel Design】

➤ Top view

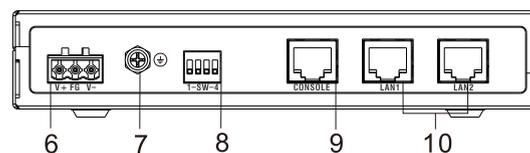


Model I

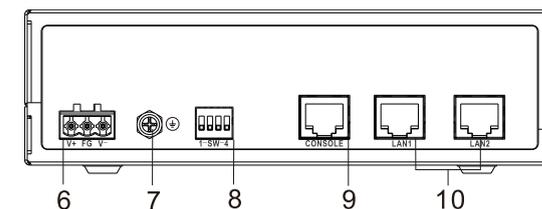


Model II

➤ Front View

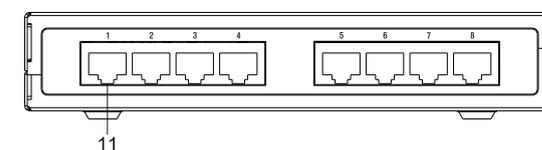


Model I

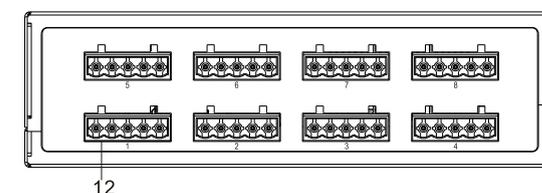


Model II

➤ Rear View

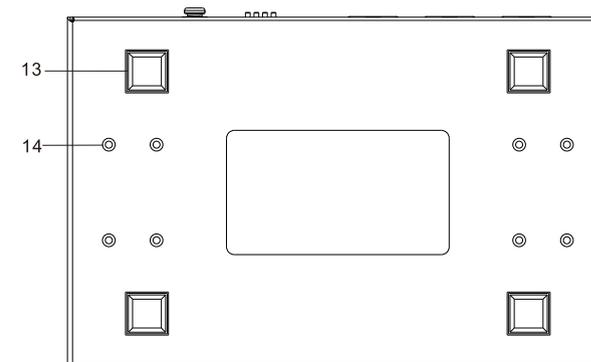


Model I



Model II

➤ Bottom View

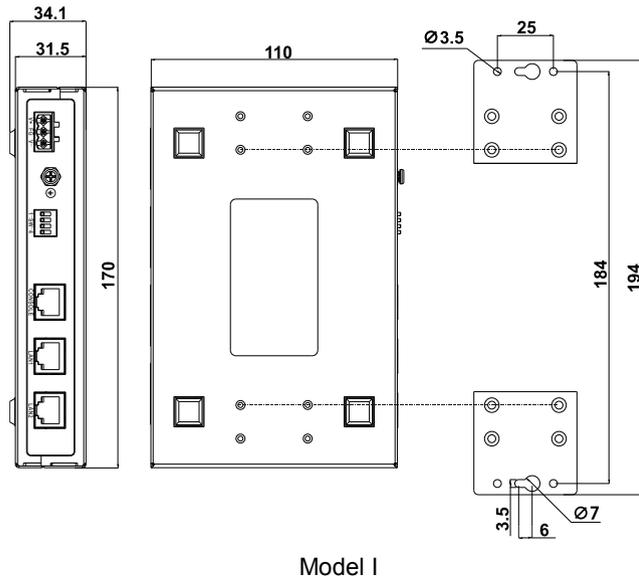


1. Power indicator
2. Running status indicator
3. Copper port connection indicator
4. Serial port transmission data indicators
5. Serial port receiving data indicators
6. Terminal block for power input
7. Grounding screw

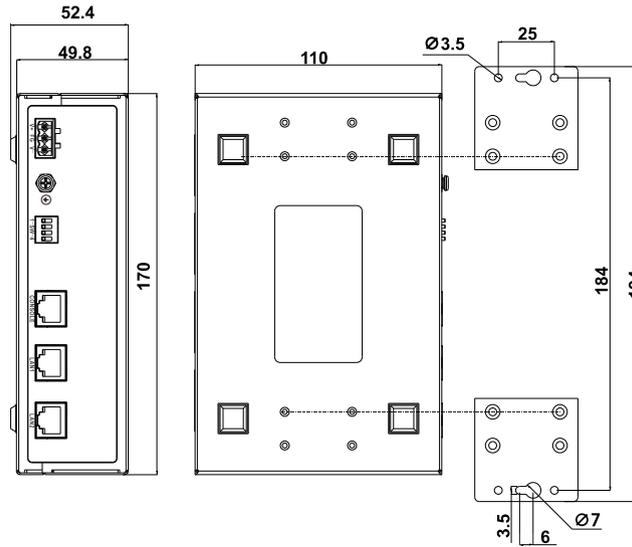
8. DIP switch
9. Console Port
10. 100 Base-T(X)
11. RS-485/422/232 serial port
12. RS-485/422 serial port
13. Foot pad
14. Wall-mounting location hole

【Mounting Dimension】

Unit: mm



Model I



Model II

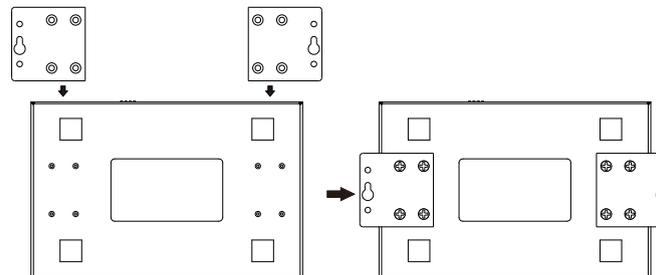


Note Before Mounting:

- 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.

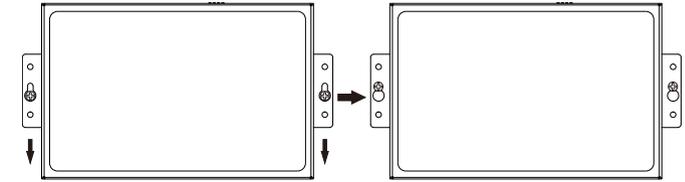


Step 2 Place the device on the wall as reference or

reference installation dimension; mark 2 bolt positions on the wall.

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.

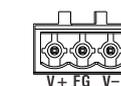


Note before powering on:

- 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】

➤ DC power supply



This device 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.

【DIP Switch Settings】



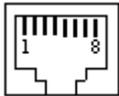
Provide 4 pins DIP switch for function settings, where "ON" is enable valid terminal. The device needs to be powered on again to change the status of DIP switch.

DIP switches definition as follows:

DIP	Definition	Operation
1	Reserved	-
2	Restore factory defaults	Set the DIP switch to ON, power on the device again, it will restore to factory settings, then turn off the DIP switch.
3	Reserved	-
4	Reserved	-

【Serial Port Connection】

➤ 3IN1 Interface

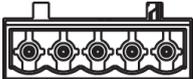


The model I of this series provides 3IN1 serial port, which supports RS232, RS485 and RS422 at the same time. The interface type is RJ45 and

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	—	R-	GND	R+	—	T-	—	T+

➤ RS-485/ 422 interface



The model II of this series provides 5-Pin 5.08mm pitch terminal blocks. The serial port is isolated and its pin definitions are

as follows:

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 the device

working status with a comprehensive simplified troubleshooting; the function 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	System runs 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	No data or abnormal data is being transmitted through serial port.
	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:

Network Port 2:

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.



Notes:

- 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 username or password is lost, user can restore it to factory settings via device DIP switch 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 or RS-485/422 terminal block 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-pin 5.08mm pitch terminal blocks
Power consumption	
Model I	No-load: 1.80W@12VDC Full-load: 3.90W@12VDC
Model II	No-load: 3.16W@12VDC Full-load: 3.72W@12VDC
Working environment	
Model I	Operating temperature: -40~75℃ Storage temperature: -40~85℃
Model II	Operating temperature: -40~70℃ Storage temperature: -40~70℃
Working humidity	5%~95% (no condensation)
Protection grade	IP30(metal)