Atop Technologies, Inc.

Industrial Serial Device Server
Industrial Modbus Gateway
Industrial Modbus Concentrator
Industrial Protocol Gateway

SE5901/MB5901/PG5901 Series

Hardware Installation Guide
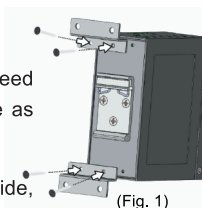
Version V1.4

Updated in December, 2020

Installation Overview

The device's appearance is as in the figure below.

1. If you have purchased the wall mount kit, proceed to place the screws on the back of the device as shown in (Fig. 1).

(Fig. 1)

2. Although internal grounding has been done inside, in order to ensure overall maximum performance and protect your device it is still strongly advised to ground the device properly; hazardous ESD can come into contact with it and damage your equipment. On the power terminal block, there is a terminal for Frame Ground, you can choose whether to connect it to the grounding or you may opt to connect to the grounding screw next to the terminal block (the one chosen should be connected at all times) (Fig. 2).
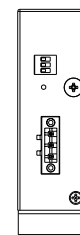
(Fig. 2)

3. You can then choose whether to plug in the I/O ports at this point or do it later depending on the actual location of the device or level of comfort for performing such operation.

4. Once the plate has been firmly put in place, proceed to mount the whole device as shown in (Fig. 3).
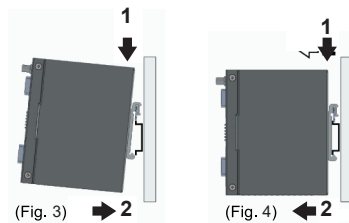
Proceed to (Fig. 4) if you want to remove the device from DIN-Rail.

(Fig. 3)   (Fig. 4)

5. Next we can then proceed to connect the device to the LAN (switch or PC, depending on the case), take care on using the RJ-45 connector; after this we can then proceed to the device's settings.

- The openings to the sides are for the device's heat dissipation please never obstruct or cover them with any objects or try to insert them through it.
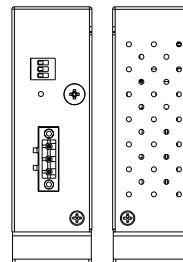
- The device's factory IP by default is 10.0.50.100 you can access the device by its Web UI once it is connected to a physical network (or using Serial Manager, for more information on Serial Manager, please refer to its manual, Chapter 3). Please be aware that the PC needed for this procedure needs to be in the same subnet, or you may refer yourself to the device User's Manual on Sec. 3.1.

Field Maintenance and Service

If the device requires servicing of any kind, you may need to disconnect and remove it from its mounting. The initial installation should be done in a way that makes this as convenient as possible.
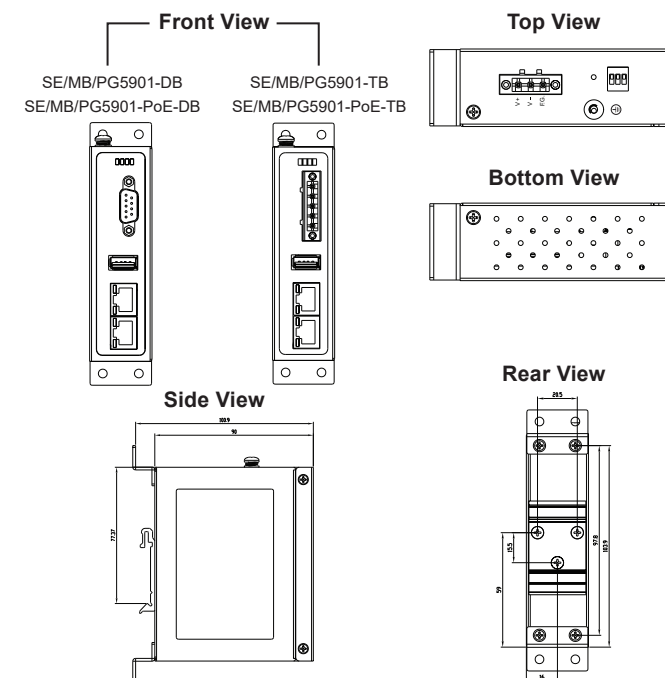
- Voltage/Power lines should be properly insulated as well as other cables. Be careful when handling them so as to not trip over.

- Do not under any circumstance insert foreign objects of any kind into the heat dissipation holes located in the different faces of the device. This may not only harm the internal layout but might cause harm to you as well.

- Do not under any circumstance open the device for any reason. Please contact your dealer for any repair needed or follow the instructions on section of your User's manual.

Package Check List

Inside the package you will find the following items:
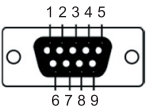
- Industrial Serial Device Server x 1 or
  Industrial Modbus Gateway x 1 or
  Industrial Modbus Concentrator x 1 or
  Industrial Protocol Gateway x 1
- 3-Pin 5.08mm Lockable Terminal Block x 1
- 5-Pin 5.08mm Lockable Terminal Block x 1
  (for SE/MB/PG5901-TB models)
- Din Rail Kit x 1 (Already mounted to the device)
- Installation Guide + Warranty Card x 1

Unit Dimensions and Layout (unit=mm)

Front View

Top View

SE/MB/PG5901-DB
SE/MB/PG5901-PoE-DB

SE/MB/PG5901-TB
SE/MB/PG5901-PoE-TB

Bottom View

Side View

Rear View

Pin Assignments

9-Pin Male D-Sub Connector for RS-232/422/485

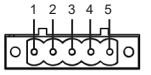| Pin	RS-232	RS-422	RS-485
1	DCD	–	–
2	RxD	TxD+	–
3	TxD	RxD+	Data+
4	DTR	–	–
5	SG	SG	SG
6	DSR	–	–
7	RTS	RxD -	Data -
8	CTS	TxD -	–
9	RI	–	–

Pin	RS-232	RS-422 / 4-W RS-485	2-W RS-485
1	RxD	TxD+	–
2	CTS	TxD -	–
3	TxD	RxD+	Data+
4	RTS	RxD -	Data -
5	SG	SG	SG

DIP switch

Dip	Function	SW	Ω
1	Termination	On	120
		Off	NA
2	Pull Low	On	1K
		Off	100K
3	Pull High	On	1K
		Off	100K

LED Indicators

Name	LED	Status	Description
COM-TX	Green	Blinking	COM port is transmitting data
		Off	COM port is not transmitting data
COM-RX	Green	Blinking	COM port is receiving data
		Off	COM port is not receiving data
LAN	Orange	On	Ethernet is connected
		Off	Ethernet is disconnected
	Green	Blinking	Ethernet is transmitting at 100Mbps
		Off	Ethernet is transmitting at 10Mbps
Power	Green	On	Power is being supplied
		Off	Power is not supplied
RUN	Green	Blinking	AP Firmware is running normally
		On/Off	System is not ready or halt

※ The wall mount kit illustrated in this document is for reference only and is not included in the package.

Warranty Policy

Warranty Conditions

Products supplied by Atop Technologies are covered in this warranty for sub-standard performance or defective workmanship. The warranty is not, however, extended to goods damaged in the following circumstances:

(a) Excessive forces or impacts
(b) War or an Act of God: wind storm, fire, flood, electric shock, earthquake
(c) Use of unqualified power supply, connectors, or unauthorized parts/kits
(d) Replacement with unauthorized parts

RMA and Shipping Costs Reimbursement

Customers shall always obtain an authorized "RMA" number from Atop before shipping the goods to be repaired to Atop. When in normal use, a sold product shall be replaced with a new one within 3 months after purchase. The shipping cost from the customer to Atop will be reimbursed by Atop.

After 3 months and still within the warranty period, it is up to Atop whether to replace the unit with a new one; normally, as long as a product is under warranty, all parts and labor are free of charge to the customers.

After the warranty period, the customer shall cover the cost for parts and labor.Three months after purchase, the shipping cost from the customer to Atop will not be reimbursed, but the shipping cost from Atop to the customer will be paid by Atop.

Limited Liability

Atop shall not be held responsible for any consequential losses from using Atop's product.

Warranty Period

Product Categories	Warranty
Ethernet Switches	5 Years
Wireless	
Serial Device Servers	
Modbus Gateways	
Protocol Gateway	
Embedded Device Servers	
Media Converters	
DIN-Rail Power Supplies	3 Years
Power Adaptors	1 Year
Antennas	
Other Accessories	

The warranty certification will not be effective until an authorized stamp issued by Atop's overseas agents.

Purchase Date: /   /   (yyyy/mm/dd)

Serial Number:

ATOP Customer Services and Supports

1. Please contact your local dealers or Atop Technical Support Center at the following numbers.
   + 886-3-550-8137 (Atop Taiwan)
   + 86-21-6495-6232 (Atop China)
2. Please report the defected problems via Atop's Web site or E-mail account
   Web Site : www.atop.com.tw, e-mail : service@atop.com.tw
   Web Site : www.atop.com.cn, e-mail : service@atop.com.cn

— **Any changes to this material will be announced on Atop website.** —