Atop Technologies, Inc.

Industrial Wireless Modbus Gateway

MW550xC Series

Hardware Installation Guide
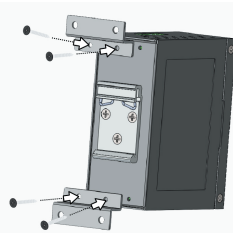
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Installation Overview

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).

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 link this point to the ground as well; 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)
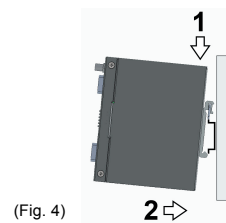
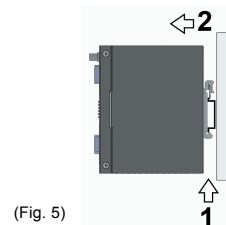3. Proceed then to fix the antenna to the female RP-SMA connectors deemed to, (Fig. 3)
You can then choose whether to plug in the I/O ports at this point or do it later depending on the actual location of the device or level of comfort for performing such operation.


(Fig. 1)

(Fig. 2)
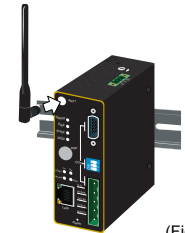
(Fig. 3)

4. Once the plate has been firmly put in place, proceed to mount the whole device as shown in (Fig. 4).Proceed to (Fig. 5) if you want to remove the device from DIN-Rail.

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.

6. MW5501C provides one serial port with D-sub(M) or 5-pin terminal block, please select one of them.

■ The openings to the sides are for the device's heat dissipation, please never obstruct or cover them with any objects.

■ MW5501C'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 user's manual). Please be aware that the PC needed for this procedure needs to be in the same subnet, or you may refer yourself to the User's Manual.

(Fig. 4)

(Fig. 5)
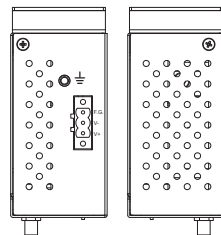
Field Maintenance and Service

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.

Pin Assignments

9-pin D-sub Connector for RS-232/422/485

Pin	RS-232	RS-422 / 4-Wire RS485 (Full Duplex)	RS-485 / 2-Wire RS485 (Half Duplex)
1	DCD	N/A	N/A
2	RXD	TXD+	N/A
3	TXD	RXD+	DATA+
4	DTR	N/A	N/A
5	SG	SG	SG
6	DSR	N/A	N/A
7	RTS	RXD-	DATA-
8	CTS	TXD-	N/A
9	RI	N/A	N/A

5-pin Terminal Block for RS-232/422/485

Pin	RS-232	RS-422 / 4-Wire RS485 (Full Duplex)	RS-485 / 2-Wire RS485 (Half Duplex)
1	SG	SG	SG
2	RTS	R-	DATA-
3	TxD	R+	DATA+
4	CTS	T-	N/A
5	RxD	T+	N/A

P2P Button

Pressing seconds	1~3(s)	4~7(s)	8~(s)
Working mode	Restart connection	AP	AP client

Package Check List

Inside the package you will find the following items:

Descriptions	Qty	Descriptions	Qty
Industrial Wireless Modbus Gateway MW550xC	1	Din Rail Kit (Already mounted to the device)	1
3dBi antenna	1	Installation Guide	1
3-Pin 5.08mm Lockable Terminal Block	1	Warranty Card	1
5-Pin 5.08mm Lockable Terminal Block	1	CD (User's Manual / Installation Guide / Serial Manager Utility)	1
5-Pin 5.08mm Lockable Terminal Block (for MW5502C-TB/MW5502C-Sis)	2		

Optional Accessories

Item	Description
AD17-24C (US-Y) Power Adapter	Y-Type power adaptor,100-240VAC input, 0.6A @ 24VDC output, US plug
AD17-24D (EU-Y) Power Adapter	Y-Type power adaptor,100-240VAC input, 0.6A @ 24VDC output, EU plug
ADP-DB9(F)-TB5	Female DB9 to Female 3.81mm TB5 Converter
WMK-454-Black	Black Aluminum Wall Mount Kit

DIP Switch

MW5501C

COM	Dip	Function	SW	Ω
COM1	3	Pull High	On	1K
			Off	100K
	2	Pull Low	On	1K
			Off	100K
	1	Termination	On	120
			Off	N/A

MW5502C

COM	Dip	Function	SW	Ω
COM1	6	Pull High	On	1K
			Off	100K
	5	Pull Low	On	1K
			Off	100K
	4	Termination	On	120
			Off	N/A
COM2	3	Pull High	On	1K
			Off	100K
	2	Pull Low	On	1K
			Off	100K
	1	Termination	On	120
			Off	N/A

LED Indicators

Name	Color	Status	Description
COM	Green	Blinking	Data transmitting on the serial port
		Off	Data is not transmitting on the serial port
LAN	Orange	Blinking	Data is transmitting on Ethernet
		On	Ethernet is connected on 100Mbps
		Off	Ethernet is disconnected on 100Mbps
	Green	Blinking	Data is transmitting on Ethernet
		On	Ethernet is connected on 10Mbps
		Off	Ethernet is disconnected on 10Mbps
WLAN	Green	On	Wireless Radio is enabled
		Blinking	Wireless Radio is enabled and data is transmitting
		Off	Wireless Radio is disabled
RUN	Green	Off	System is not powered on
		Blinking Steadily	AP firmware is running normally
		Blinking Rapidly	AP firmware is not running
P2P	Orange	On	WPS connected
		Blinking	WPS is connecting at Wi-Fi Direct Go mode
	Green	On	WPS connected
		Blinking	WPS is connecting at client mode

Signal LEDs

○ off   ● on   ☼ blinking

Operations		Poor	Fair	Good
Connecting	Searching for an AP	☼	☼	☼
	Cannot connected to the AP	☼		
	No IP provided by the DHCP Server	☼	☼	
Connected	Poor Signal Strength 30%	●		
	Fair Signal Strength(31-60%)	●	●	
	Good Signal Strength(61-100%)	●	●	●

Device Dimensions, Physical Appearance and Mounting

Proceed to mount the MW550xC in a dry location free from dirt and corrosive vapors, for more questions on environmental limitations please refer to the User's manual.

▪ Unit Dimensions and Layout (unit=mm)

The Industrial Wireless Serial Device Server and dimensions are shown below.

Front View
MW5501C   MW5502C-TB   MW5502C

Top and Bottom View

Rear View

Left Side View   Right Side View

Warranty Policy