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SW485GI
Industrial RS-232/485/422 Interface Converter or RS-485/422 Relay (2-in-1) 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. Interface converter
2. DB9M to DB9F conversion line
3. Certification
4. Warranty card

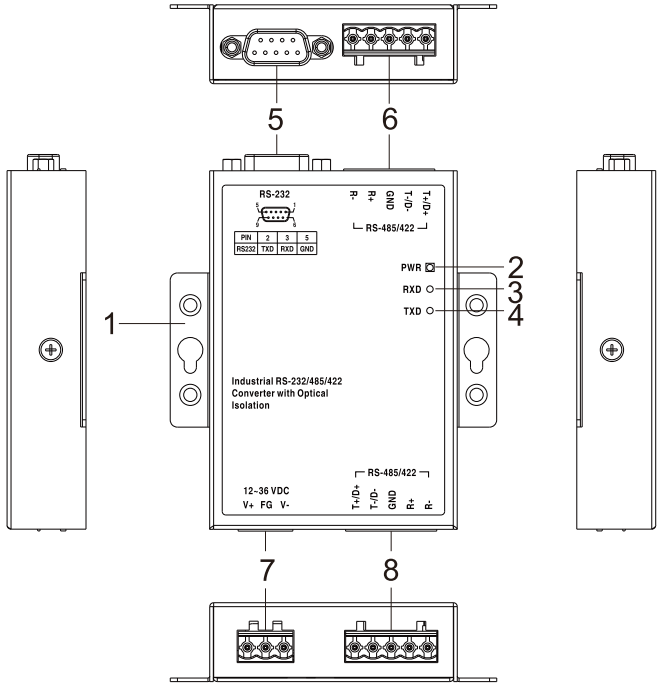
If any of these items are damaged or lost, please contact our company or dealers, we will solve it ASAP.

【Product Overview】

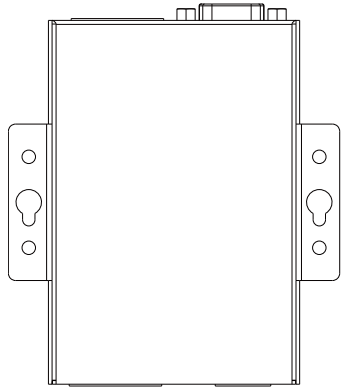
The product is a 2-in-1 product with the model of SW 485GI. As a RS-232/485/422 converter, it uses 1 RS-232 serial port + 1 RS-485/422 serial port. As a RS-485/422 relay, it uses 2 RS-485/422 serial ports.

【Panel Design】

➢ **Top view, right view, front view, left view, and bottom view**



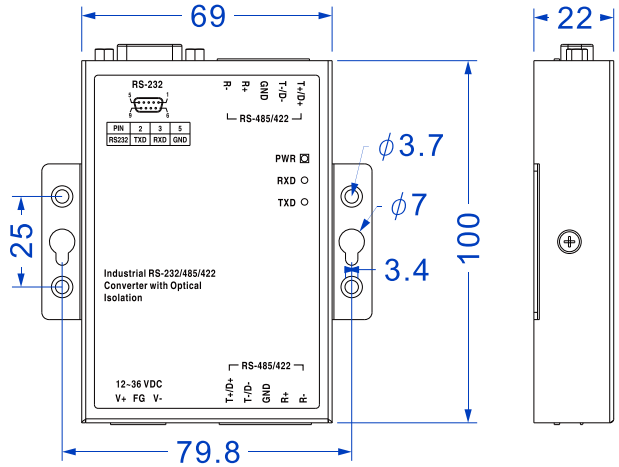
➢ **Rear View**



1. Lugs
2. Power input indicator
3. RS-485/422 receiving data indicators
4. RS-485/422 transmission data indicators
5. RS-232 DB9F interface
6. RS-485/422 5-pin terminal block 1
7. Power interface 3-pin terminal block
8. RS-485/422 5-pin terminal block 2

【Dimension】

Unit (mm)



Notice Before Mounting:

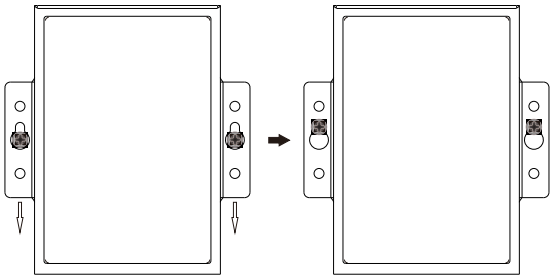
- Don't place or install the device in area near water or moisture, keep the relative humidity of the device surrounding between 5%~95% without condensation.
- Before powering on the device, check the power specifications supported by the device to prevent device damage due to overvoltage.
- The device 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.

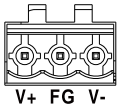
Step 3 Lift the device upward slightly, take out the device, disassembling ends.

Notice Before Powering on:

- Power ON operation: First insert the power supply adapter into the device power supply interface, and then plug the power supply plug and power on.
- Power OFF operation: first, remove the power plug, and then remove the wiring section of the adapter. Please pay attention to the above operation sequence.

【Power Supply Connection】

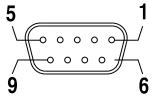
➢ **DC power supply**



Power interface adopts 3-pin 5.08mm pitch terminal blocks, and the pin definition is shown in the left figure. The input voltage is 12-36VDC.

【Serial Port Connection】

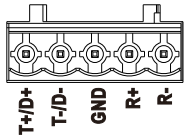
➢ **RS-232 DB9 interface**



This product provides an RS232 DB9 interface, interface type is RS232 DB9. The pin definitions as shown in the following table:

PIN	1	2	3	4	5	6	7	8	9
RS-232	-	TXD	RXD	-	GND	-	-	-	-

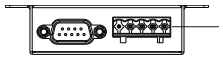
➢ **RS-485/422 5-pin terminal block**

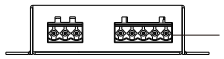


The product provides 2 RS-485/422 interfaces with 5-pin 5.08mm pitch terminal block. When the device is used as the RS-485/422 relay, one interface is the proximal interface and the other is the remote interface. The pin definitions as shown in the following table:

T+/D+	RS-422 sending positive, or RS-485 sending positive
T-/D-	Rs-422 sending negative, or RS-485 sending negative
GND	Signal ground
R+	RS-422 receive positive
R-	RS-422 receive negative

Notice:





The device cannot be used as a signal converter and relay at the same time, users have to choose between the two.

- When used as a RS-485/422 relay, the local device is connected to RS-485/422 terminal 1 and the corresponding GND, the remote device is connected to RS-485/422 terminal 2 and the corresponding GND.
- When used as a RS-232/485/422 interface converter, use the RS-485/422 terminal 2 and the corresponding GND.

【Checking LED Indicator】

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

LED	Indicate	Description
Power indicator: Always on after power-on	ON	Power is connected and running normally
	OFF	Power supply is disconnected or running abnormally
RXD	ON	RS-485/422 is receiving data
	OFF	RS-485/422 has no received data
TXD	ON	RS-485/422 is transmitting data
	OFF	RS-485/422 is not transmitting data or transmitting data abnormally

【Specification】

Panel	
RS-232	DB9 interface, female hole type
RS-485/422	5-pin terminal block, with 5.08mm pitch
Indicator	Power indicator, serial port transmission and receiving data indicator
Power Supply	
Input power supply	12~36VDC
Access terminal block	3-pin terminal block, with 5.08mm pitch
Power Consumption	
Normal temperature No-load	– 0.2W@12VDC – 0.2W@24VDC – 0.2W@36VDC

Normal temperature full load	− 0.3W@12VDC − 0.3W@24VDC − 0.3W@36VDC
High temperature full load	− 0.3W@12VDC − 0.3W@24VDC − 0.3W@36VDC
Working Environment	
Working temperature	-40~75℃
Storage temperature	-40~75℃
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 the equipment or its packaging indicates that the product, at the end of its service life, shall not be mixed with unsorted 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 their suppliers and check the terms of their selling agreement.

This product must not be disposed of with other commercial waste.

Users' cooperation in the correct disposal of this product will contribute to saving valuable resources and protecting the environment.