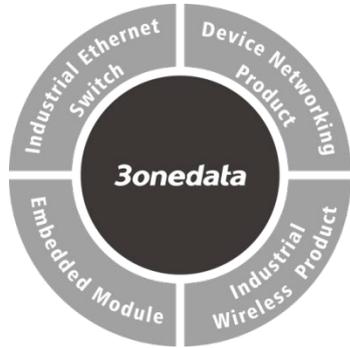


# SW485GI Industrial RS-232/485/422 Interface Converter or RS-485/422 Relay (2-in-1) Quick Installation Guide



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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

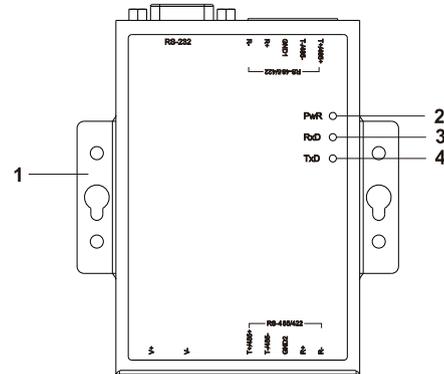
If any of these items are damaged or lost, please contact our company or dealers, we will solve it ASAP.

## 【Product Overview】

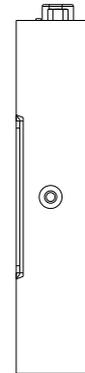
The product is a 2-in-1 device with the model of SW 485GI. As a RS-232/485/422 converter, it uses 1 RS-232 serial port + 1 RS-485/422 serial port. As a RS-485/422 relay, it uses 2 RS-485/422 serial ports.

## 【Panel Design】

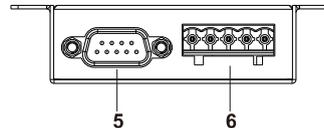
### ➤ Front View



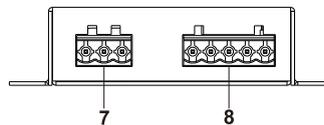
### ➤ Side view



### ➤ Top view



### ➤ Bottom view

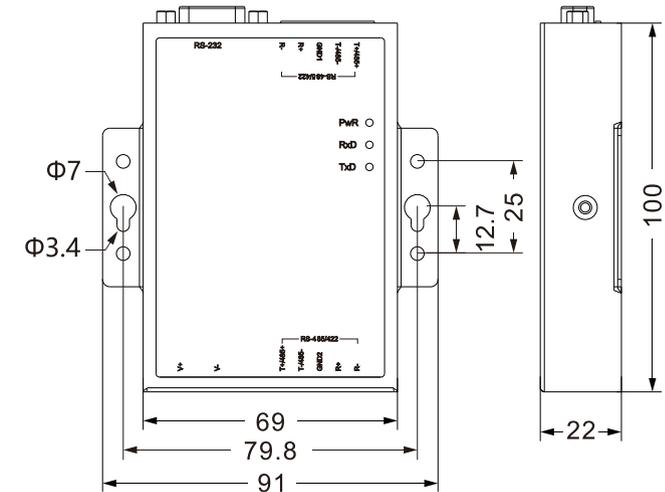


1. Lugs
2. Power input indicator
3. RS-485/422 receiving data indicators
4. RS-485/422 transmission data indicators
5. RS-232 DB9F interface
6. RS-485/422 5-pin terminal block 1

7. Power interface 3-pin terminal block
8. RS-485/422 5-pin terminal block 2

## 【Dimension】

Unit (mm)



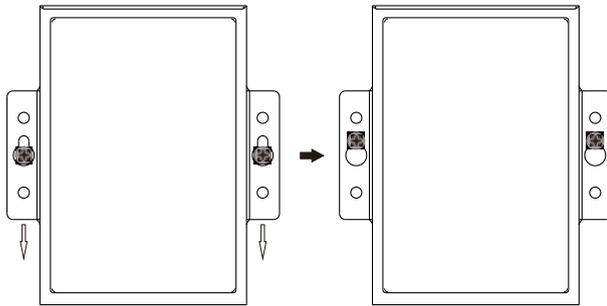
### Notice before mounting:

- Don't place or install the device in area near water or 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 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.

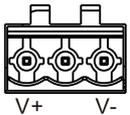


#### Notice before powering on:

- 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】

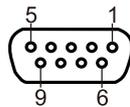
#### ➤ DC power supply



Power interface adopts 3-pin 5.08mm pitch terminal block. Input voltage: 12~36VDC.

### 【Serial Port Connection】

#### ➤ RS-232 DB9 interface

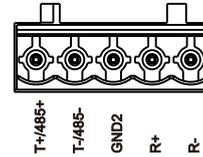
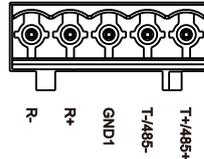


This product provides an RS232 DB9 interface, interface type is RS232 DB9. The pin definitions as shown in the following table:

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:

<b>T+/485+</b>	RS-422 sends positive, or RS-485 sends positive
<b>T-/485-</b>	Rs-422 sends negative, or RS-485 sends negative
<b>GND1</b>	Signal ground 1 (proximal end )
<b>GND2</b>	Signal ground 2 (remote end)
<b>R+</b>	RS-422 receive positive
<b>R-</b>	RS-422 receive negative



#### Note:

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 (corresponding to GND1), and the remote device is connected to RS-485/422 terminal 2 (corresponding to GND2).
- When used as an RS-232/485/422 interface converter, use the RS-485/422 terminal 2 (the corresponding ground is GND2).

### 【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
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	
Static power consumption	≤150mA
Dynamic power consumption (average value)	≤30mA
Working Environment	
Working temperature	-10~75℃
Storage temperature	-40~75℃

Working humidity	5%~95% (no condensation)
<b>Physical Characteristics</b>	
Protection grade	IP30(metal shell)
Size (L×W×H)	100mm×69mm×22mm
Weight	170g
Mounting	Wall Mounting