3onedata
Make network communication more reliable

Model 485P
RS-232/485/422 Interface Converter
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. Power adapter
3. DB9F to 5-pin adapter terminal converter
4. Certification
5. DB9M to DB9F conversion line
6. Warranty card

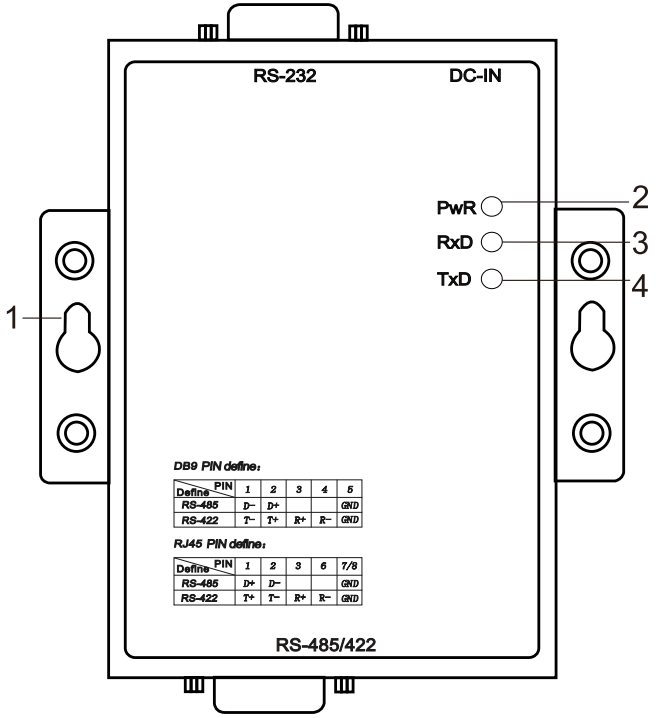
If any of these items are damaged or lost, please contact our company or dealers, we will solve it ASAP.

【Product Overview】

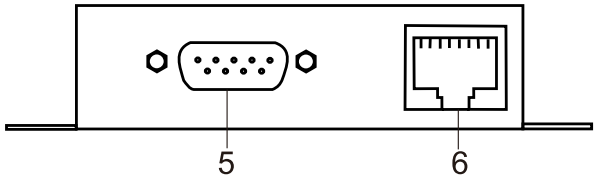
This product is RS-232/485/422 converter, model is 485 (1 RS-232 serial port + 1 RS-485/422 DB9 serial port + 1 RS-485/422 RJ45 serial port).

【Panel Design】

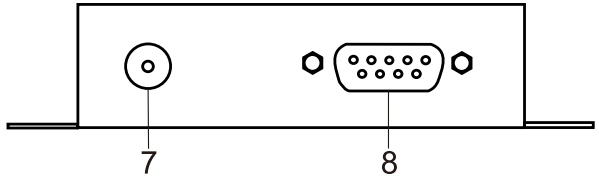
➢ **Top view**



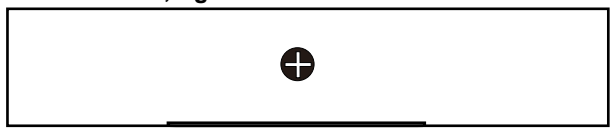
➢ **Front View**



➢ **Rear View**



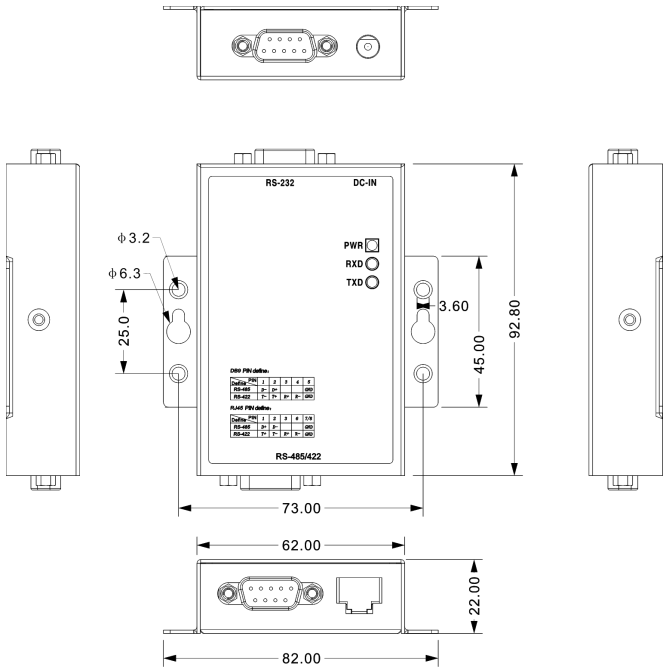
➢ **Left view, right view**



1. Lugs
2. Power input indicator
3. RS-485/422 receiving data indicators
4. RS-485/422 transmission data indicators
5. RS-485/ 422 DB9M interface
6. RS-485/ 422 RJ45 interface
7. Power supply interface
8. RS-232 Interface DB9F interface

【Dimension】

Unit (mm)



Note before mounting:

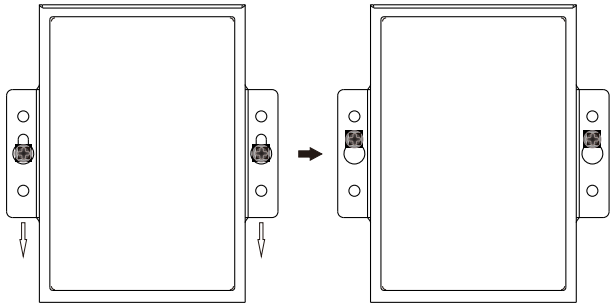
- Don't place or install the device in area near water or moist, keep the relative humidity of the device surrounding between 5%~95% without condensation.
- Before power on, first confirm the supported power supply specification to avoid over-voltage damaging the device.
- The device surface temperature is high after running; please don't directly contact to avoid scalding.

【Wall-mounted Device Mounting】

Step 1 Place the device on the wall as reference or reference installation dimension; mark 2 bolt positions on the wall.

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.

Note 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**

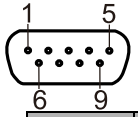


The RS-485/422 serial port of the device adopts DC round head power interface, which is used together with the power adapter. The RS-232 serial port obtains power from the TXD, RTS and DTR signals of the RS-232 port.

Power input voltage: 9VDC

【Serial Port Connection】

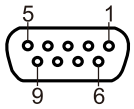
➢ **RS-232 DB9 interface**



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

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

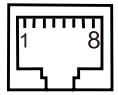
➢ **RS-485/ 422 DB9 interface**



This product provides an RS-485/422 DB9 interface, interface type is male head pin. The pin definitions as shown in the follow table:

PIN	1	2	3	4	5	6	7	8	9
RS-422	T-	T+	R+	R-	GND	-	-	-	-
RS-485	D-	D+	-	-	-	-	-	-	-

➢ **RS-485/ 422 RJ45 interface**



This product provides an RS-485/422 RJ45 interface, interface type is RJ45. The pin definitions as shown in the follow table:

PIN	1	2	3	4	5	6	7	8
RS-422	T+	T-	R+	-	-	R-	GND	GND
RS-485	D+	D-	-	-	-	-	GND	GND

【Checking LED Indicator】

The front panel LED indicators of this device 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	OFF	RS-485/422 is not receiving data or receiving data abnormally
	Blinking	RS-485/422 is receiving data.
TXD	OFF	RS-485/422 is not transmitting data or transmitting data abnormally
	Blinking	RS-485/422 is transmitting data

【Specification】

Panel	
RS-232	DB9 interface, female hole type
RS-485/422 DB9	DB9 interface, male pin type
RS-485/422 RJ45	RJ45 port
Indicator	Power indicator, serial port transmission and receiving data indicator
Power Supply	
Input power supply	9VDC
Access terminal block	DC round head
Power Consumption	
Static power consumption	≤70mA

Dynamic power consumption (average value)	≤200mA
Working Environment	
Working temperature	-20～75℃
Storage temperature	-25～85℃
Working humidity	5%～95% (no condensation)
Physical Characteristics	
Protection grade	IP30(metal shell)
Size (L×W×H)	62mm×22mm×92.8mm(exclude lugs)
Weight	200g
Mounting	Wall Mounting

【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.