

# XP Series RS485 Signal Isolator Data Sheet

## 1. General

**XP Series RS485 Signal Isolator** (one input one output) receives RS485 signal from the automatic control system, then output to Industrial computer, PLC or DCS system in the control room after isolation. It can cooperate with various industrial sensors and field instruments. It is widely used in data acquisition, signal transmission and conversion, PLC, DCS and other industrial measurement and control systems in the fields of machinery, electricity, telecommunications, petroleum, chemical industry, steel, sewage treatment, building construction, etc. It is used to improve the anti-interference ability of the automatic control system, and ensure the stability and reliability of the system.



## 2. Features

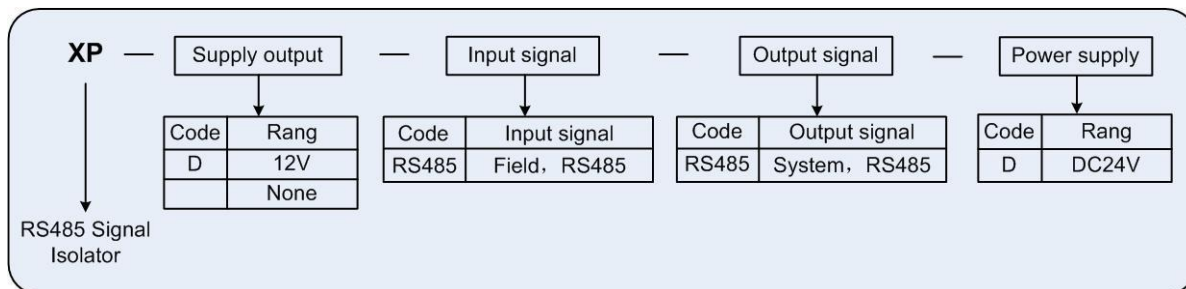
- ◆ Input, output and power are completely isolated, with strong anti-interference ability
- ◆ High accuracy, high linearity, long - term running stability
- ◆ Modular design, small size, low power consumption, suitable for intensive installation
- ◆ Plug-in construction, easy installation, disassembly and maintenance

## 3. Specifications

Power supply: DC24V±10%	Insulation resistance: $\geq 100M\Omega/500VDC$
Power consumption: $\leq 1.8W$	Dielectric strength: input/output $\geq 2000VAC$ (1min)
Field circuit: RS485	input/power $\geq 2000VAC$ (1min)
System circuit: RS485	output/power $\geq 1000VAC$ (1min)
Signal type: Standard RS485 differential signal	Operating temperature: 0~50°C
Supply output: Open circuit voltage $\leq 20V$	Storage temperature: -40~85°C
Voltage $\geq 12V$ at 50mA output	Operating humidity: 10~90%RH
Signal transmission delay: $\leq 10\mu s$	Atmospheric pressure: 86~106kPa
Communication rate: $\leq 57600$ bps.	Installation: DIN 35mm rail
Communication mode: half-duplex	Dimension: 122mm×18mm×96mm
Drive capability: 1~32	

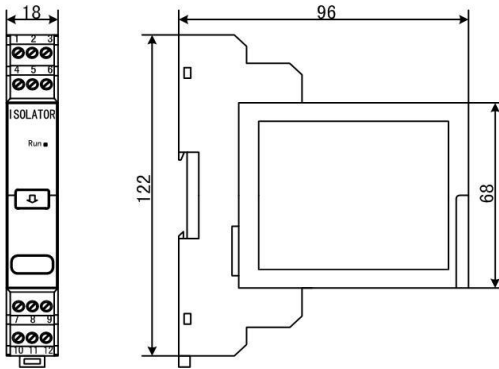
## 4. Ordering Information

XP series code table :

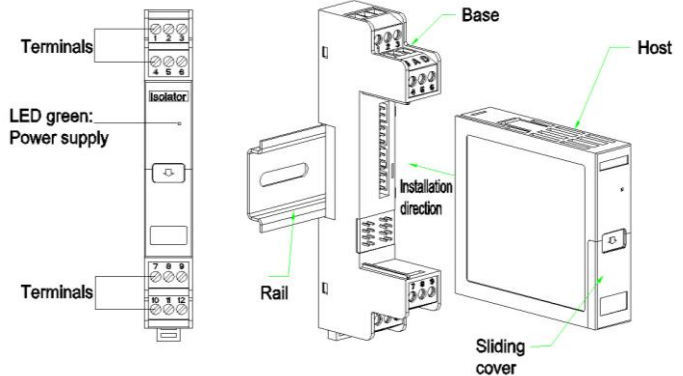


## 5. Dimension & Installation

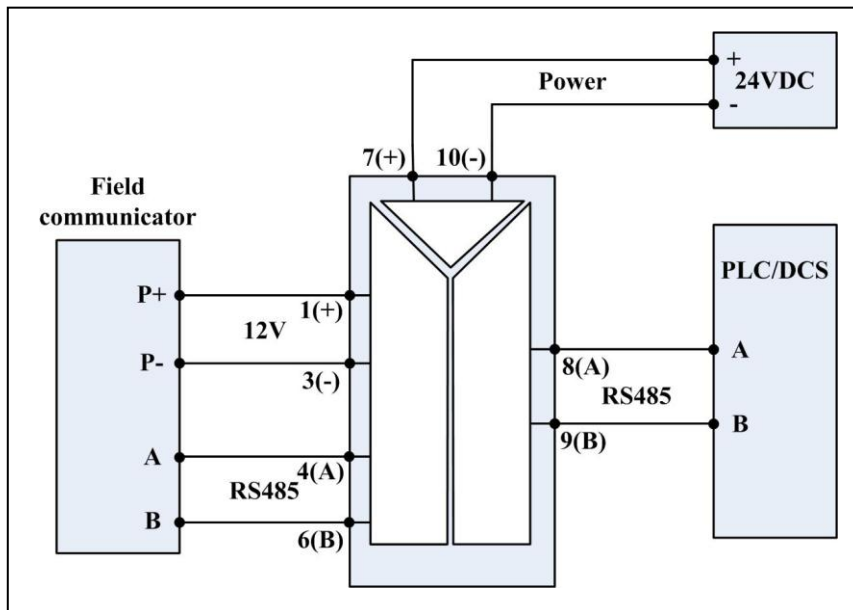
Dimension (122mm×18mm×96mm)



Installation



## 6. Typical Connection



Note: no supply output, terminals 1 and 3 are not connected.

## 7. Examples of ordering

Refer to the code table above and provide the model number correctly.

Example 1 input: field circuit, RS485, output: system circuit, RS485, power supply: 24VDC

order model: XP-RS485-RS485-D

Example 2 input: field circuit, RS485, supply output: 12V, output: system circuit, RS485, power supply: 24VDC

order model: XP-D-RS485-RS485-D



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