

XP Series Strain Gauge Isolated Transmitter Data Sheet

1. General

XP Series Strain Gauge Isolated Transmitter (one input one output, one input two outputs) supplies required excitation voltage for the bridge type strain gauge utilized in load cells, pressure transducers, outputs 1:1 mV signal through isolation or converts into a standard process signal output. It is widely used in data acquisition, signal transmission conversion, distributed weighing control system and batching system. It is mainly used in cement, concrete, glass, paper making, plastic, chemical industry, metallurgy, non-ferrous, cotton spinning, testing machine and other industries, such as weighing level, weight load, tension signal transmission and detection, etc. It is used to perfect and supplement the function of the system I/O plug-in, improve the anti-interference ability of the automatic control system, and ensure the stability and reliability of the system.



2. Features

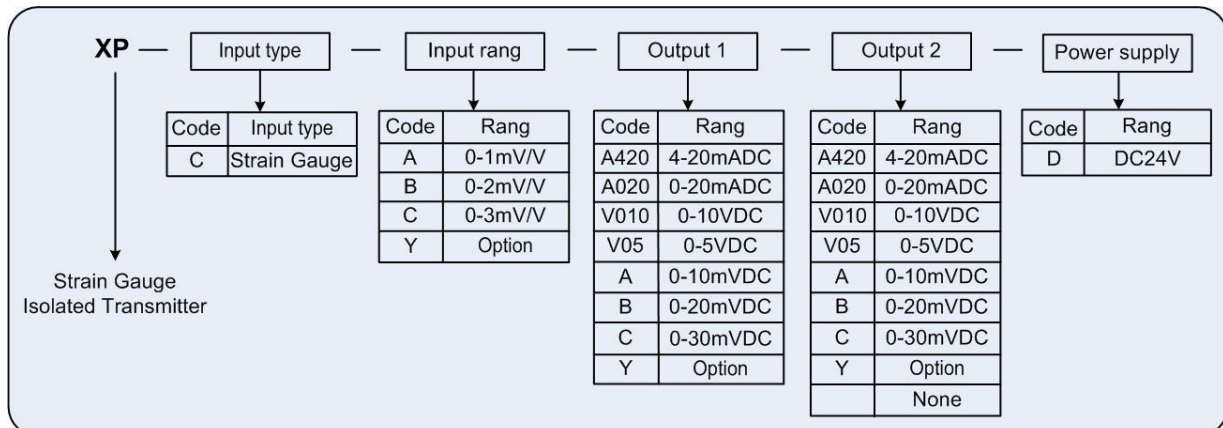
- ◆ Input, output and power are completely isolated, with strong anti-interference ability
- ◆ High accuracy, high linearity, long - term running stability
- ◆ Modular design, small size, low power consumption, suitable for intensive installation
- ◆ Potentiometer for zero point and full adjustment,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

3. Specifications

Power supply: DC24V±10%	Insulation resistance: $\geq 100\text{M}\Omega/500\text{VDC}$
Power consumption: $\leq 2.5\text{W}$	Dielectric strength: input/output $\geq 1500\text{VAC}$ (1min)
Input: -100mV~100mVdc	input/power $\geq 1500\text{VAC}$ (1min)
Excitation supply: 10Vdc/40mA	output/power $\geq 1000\text{VAC}$ (1min)
Output: -100mV~100mVdc, 4~20mA, 0~10V, etc	Operating temperature: -20~60°C
Load resistance: voltage output $\geq 10\text{K}\Omega$	Storage temperature: -40~85°C
current output $\leq 350\Omega$	Operating humidity: 10~90%RH
Accuracy: $\pm 0.1\% \text{F.S}$	Atmospheric pressure: 86~106kPa
Response time: 10mS	Installation: DIN 35mm rail
Temp. coefficient: $\leq \pm 50\text{PPM}/^\circ\text{C}$	Dimension: 122mm×18mm×96mm

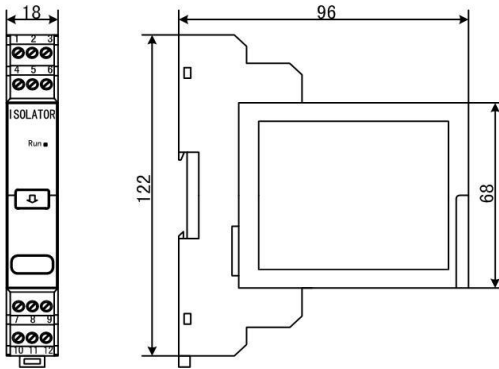
4. Ordering Information

XP series code table :

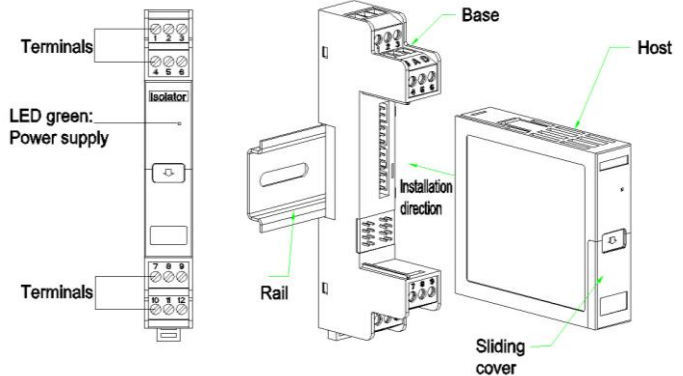


5. Dimension & Installation

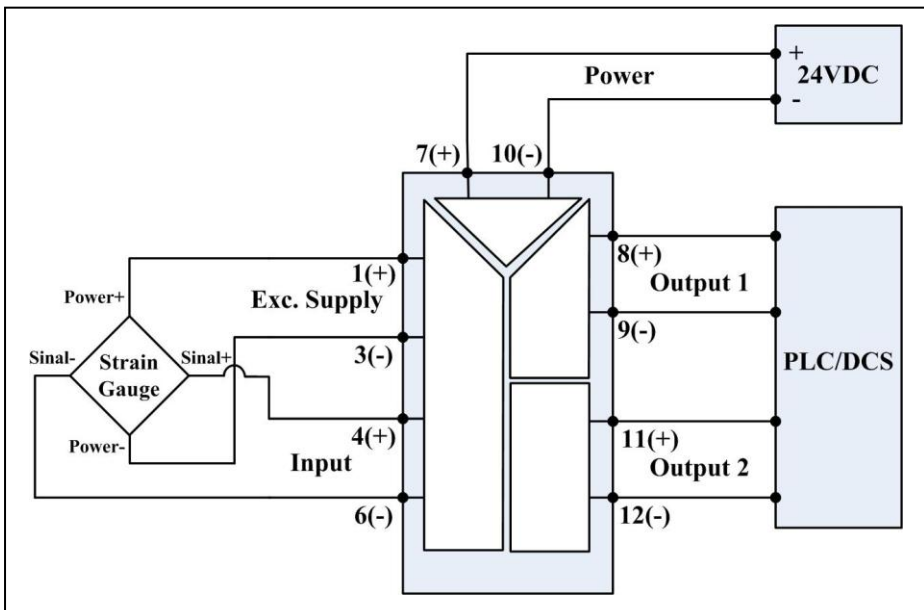
Dimension (122mm×18mm×96mm)



Installation



6. Typical Connection



Note: The connection diagrams given in this manual are typical. When installing, please refer to the connection diagram on the product.

7. Examples of ordering

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

Example 1 input: 3mV/V, output: one channel 4-20mA, power supply: 24VDC

order model: XP-C-C-A420-D

Example 2 input: 2mV/V, output: one channel 1:1mV and one channel 4-20mA, power supply: 24VDC

order model: XP-C-B-B-A420-D



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