

RTD PT100 0-200 Degree Temperature Sensor Transmitter Module DC 24V 4-20mA Temperature Sensors Detector Module

Overview:

The temperature transmitter is a small, high-precision temperature measuring instrument. It is connected with the field sensor to form a temperature measurement loop. It adopts the two-wire transmission method (two wires are used as power input and at the same time as the public transmission line for signal output), and the signal of the thermal resistance is converted into a linear 4~20mA output signal. MXSBWZ series temperature transmitter as a new generation of thermometer can be widely used in metallurgy, petroleum, chemical industry, electric power, light industry, textile, food, national defense and scientific research and other industrial sectors.

Feature:

1. It adopts a sealed structure, so it is shock-resistant and moisture-resistant, suitable for installation and use in harsh field environments. 2. Direct output of 4~20mA, which not only saves the cost of expensive compensation wires, but also improves the anti-interference ability during long-distance signal transmission. 3. The transmitter has an open-circuit indication function at the input end. 4. High precision, low power consumption, wide operating temperature range, stable and reliable work.

Technical parameters:

1. Working system: two-wire system 4~20mA output thermal resistance input signal is: (1) two-wire system (2) three-wire system. 2. Accuracy grade: 0.1%FS, 0.2%FS, 0.5%FS. 3. Working voltage: DC24V±1V.. 4. Range: (1) Thermal resistance Pt100 (special range can be specified by users) -50°C~50°C; 0°C~50°C; 0°C~100°C; 0°C~150°C; 0°C~200°C; 0°C~300°C; 0°C~600°C. 5. Working environment: Temperature: -50°C~85°C, Humidity: 0~95%RH. 6. Load capacity: ≤500Ω. 7. Dimensions: 45mm×41mm. 8. Material: plastic 9. Weight: 25g

Main functions:

1. Input signal: thermal resistance temperature signal: Pt100 or thermocouple.
2. Transmitting output: 4~20mA.

Adjustment Instructions:

Thermal resistance temperature range: Pt100, Connect the standard resistance box (such as ZX38/11 type and ZX-25a type) to the left input terminal, the upper two circuits are the common terminals of the resistance box, and the output terminal is connected in series with a standard ammeter and a 24VDC regulated power supply. Change the signal source generator (resistance box) to make it equal to the resistance value corresponding to the lower limit of the range, adjust the zero-adjustment potentiometer so that the reading of the ammeter is 4mA, change the signal source to make it equal to the corresponding resistance value of the upper limit of the range, and adjust to

full Potentiometer, so that the reading of the ammeter is 20mA.

Example:

The input model is Pt100, and the temperature transmitter is calibrated with a range of 0 to 100 °C. After correct wiring, the resistance value of the resistance box is 100Ω, and the zero-adjusting potentiometer is adjusted so that the reading of the ammeter is 4mA; the output resistance value of the resistance box is 138.5 Ω (that is, the corresponding resistance value of the platinum thermal resistance at 100°C), adjust the full potentiometer so that the reading of the ammeter is 20mA.

Package included:

1X transmitter □ Model optional □

Note:

1.The color of the item may vary slightly due to photography and your own computer 2.Through the transmitter, resistance signal of the thermal resistance can convert into 4-20mA current signal, convenient to use with computer.

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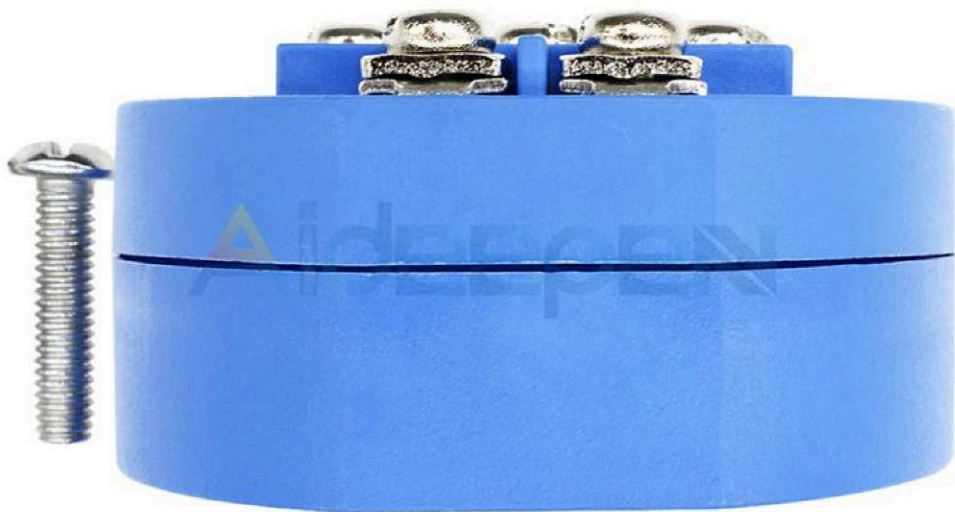


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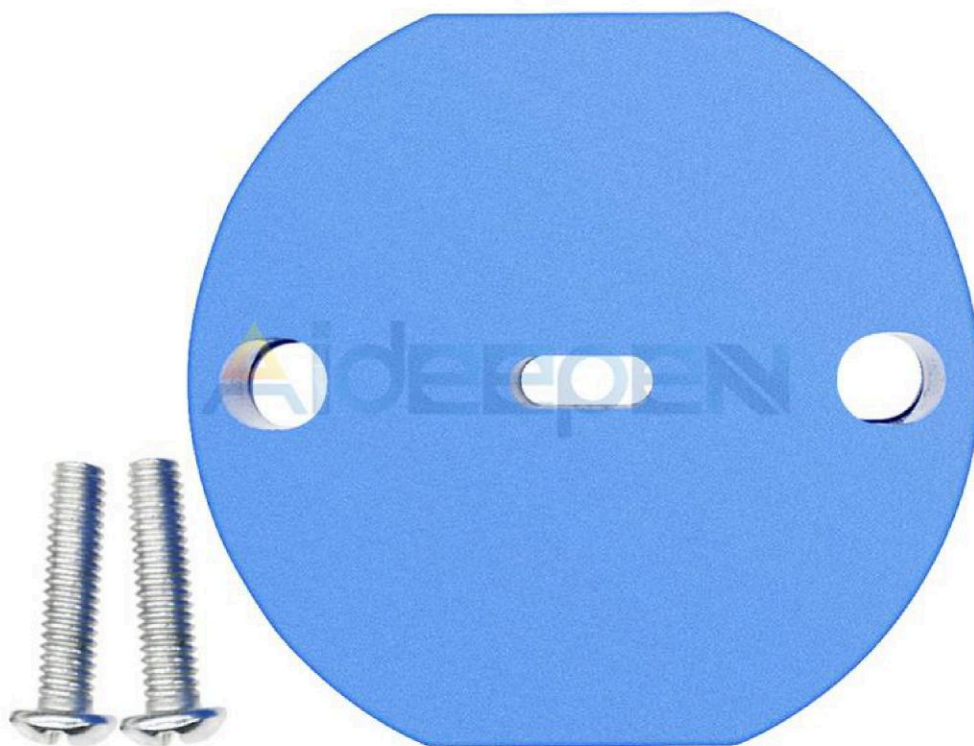


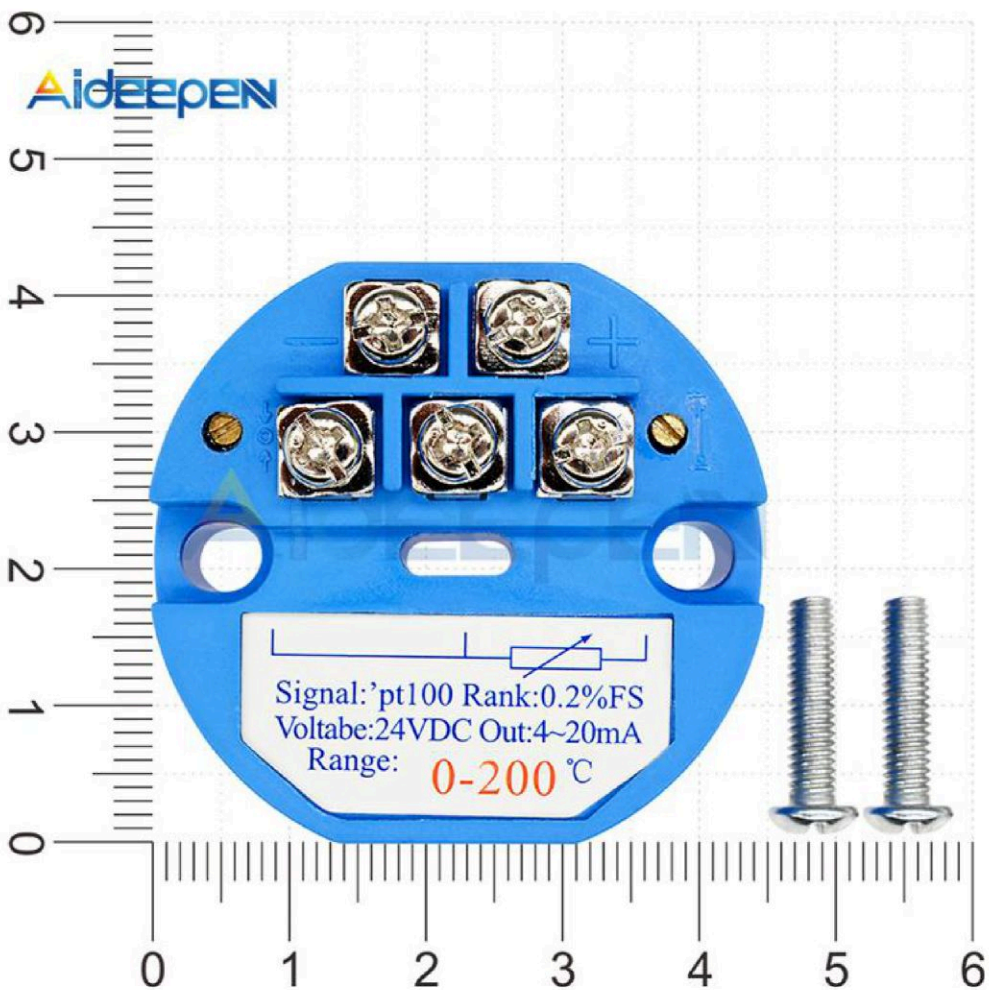


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Signal: 'pt100 Rank:0.2%FS
Voltage:24VDC Out:4~20mA
Range: 0-200 °C