

SLST3-31

Fixed chip PT1000 armored temperature sensor

User Manual

File Version: V19.8.27



SLST3-31The kernel is imported from Germany. PT1000 is a platinum thermal

resistance, and its resistance will change with temperature. The 1000 after the PT character means that it has a resistance of 1000 ohms at 0 °C, at 300 °C. Its resistance is about 2120.515 ohms. Its working principle: When the PT1000 is at 0 degrees Celsius, its resistance is 1000 ohms, its resistance will increase with temperature and its resistance will increase at a constant rate. SLST3 -20PT1000 sensor platinum resistance is made of platinum wire with purity of 99.9995%. It has stable performance, good repeatability, high precision and good linearity in a certain temperature range. It is an internationally recognized mature product, international temperature standard ITS-90. It is also stipulated that the platinum resistance with special structure is used as the standard thermometer of 13.5033K--961.78 °C. The platinum resistance is widely used for the temperature in the range of -200--850 °C Measurement, industry is usually below 600 ° C, the temperature range of different models of SLST3 see technical parameters. Very low power consumption, making SLST3-X the first choice for various applications.

Technical Parameters

| Technical parameter | Parameter value |
|--|--|
| Brand | SONBEST |
| Temperature measurement range | -50°C to +100°C (optional with other ranges) |
| Detecting Core Devices | PT1000 |
| Temperature Measurement Accuracy | ± 0.3°C (optional ±0.3°C) |
| Thermal Response Coefficient | 10mΩ/K |
| The resistance of the sensor at 0 °C | 1000Ω±0.12Ω/K |
| The resistance of the sensor at 0-100 °C | 3.85Ω/K |
| Reference Execution Standards | Using EN 60751 Class B Standards |
| Power | DC3~5.5V |

Wiring instructions

Any incorrect wiring can cause irreversible damage to the product. Please carefully wire the cable as follows in the case of power failure, and then connect the cable to confirm the correctness and then use it again. Some products have no lead, the core color is for reference only.

| ID | Core color | Identification | Note |
|----|------------|----------------|------------------------------|
| 1 | Red、BLACK | R- | One foot of the resistor |
| 2 | Blue | R+ | Another foot of the resistor |

Contact Us

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