

## **SLST3-5**

### **Soil PT1000 temperature sensor**

#### **User Manual**

File Version: V19.8.27



SLST3-5The 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
Communication Interface	1-WIRE BUS
Power	DC3~5.5V

### Contact Us

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