

SLST2-35

SMD PT100 temperature sensor

User Manual

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Suobo SLST2 series PT100 sensor platinum resistance is made of platinum wire with a 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. The international temperature

standard ITS-90 also stipulates that the platinum resistance with special structure is used as the 13.5033K--961.78 °C standard thermometer. Platinum resistance is widely used for temperature measurement in the range of -200--850 °C, usually in the industry. Below 600 °C, the temperature range of different models of SLST2 can be found in the technical parameters. The extremely low power consumption makes the SLST2-X the first choice for all kinds of applications.

Technical Parameters

Technical parameter	Parameter value
Brand	SONBEST
Temperature measurement range	-50°C to +100°C (optional with other ranges)
Detecting Core Devices	PT100
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	0.385Ω/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.

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

In the case of broken wires, wire the wires as shown in the figure. If the product itself has no leads, the core color is for reference.

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