

SLST1-17

Economical temperature sensor DS18B20

User Manual

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SLST1 series digital temperature sensor adopts DS18B20 digital temperature sensor from Dallas Semiconductor of the United States. The sensor is packaged in a stainless steel case and is waterproof and moisture-proof. The specially designed sensor stainless steel case has a wall thickness of only

0.15mm and has a small heat storage capacity. The metal pad molding process allows the DS18B20 to be in full contact with the inner wall of the stainless steel, and is sealed with a high thermal conductivity sealant to ensure high sensitivity of the temperature sensor and minimal temperature delay.

Technical Parameters

Technical parameter	Parameter value
Brand	SONBEST
Temperature measuring range	-30°C~80°C
Temperature measuring accuracy	±0.5°C @25°C
Power	DC3~5.5V
Temperature Resolution	9-12 Bits (0.0625°C)
temperature measurement speed	750ms (12-bit resolution)
hold cable length	>=100 meters
Dimensions	see dimension drawing

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	VCC	Power V+
2	Green	GND	Power V-
3	Blue	DQ	Signal

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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