

SM1602B

RS485 bus four-channel PT1000 temperature acquisition module

User Manual

File Version: V21.3.24



SM1602B using the standard RS485 bus MODBUS-RTU protocol, easy access to PLC, DCS and other instruments or systems for monitoring temperature state quantities. The internal use of high-precision sensing core and related devices to ensure high reliability and excellent long-term stability, can be customized RS232, RS485, CAN, 4-20mA, DC0~5V\10V, ZIGBEE, Lora, WIFI, GPRS and other output methods.

Technical Parameters

Technical parameter	Parameter value
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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
Channels	8
Wire	2-wire or 3-wire
Communication Interface	RS485
Default baud rate	9600 8 n 1
Power	DC9~24V 1A
Running temperature	-40~80°C
Working humidity	5%RH~90%RH

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	V+	Power +
2	Green	V-	Power -
3	Yellow	A+	RS485 A+
4	Blue	B-	RS485 B-

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.

Communication Protocol

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