

SM2102M

Protective 4-20mA temperature PT1000 current transmitter

User Manual

File Version: V23.8.10



SM2102M using the standard ,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
Brand	SONBEST
Temperature measurement range	-50℃ to +100℃ (optional with other ranges)
Detecting Core Devices	PT1000
Temperature Measurement Accuracy	± 0.3℃ (optional ±0.3℃
Thermal Response Coefficient	10mΩ/K
The resistance of the sensor at 0 ℃	1000Ω±0.12Ω/K
The resistance of the sensor at 0-100 ℃	3.85Ω/K
Reference Execution Standards	Using EN 60751 Class B Standards
Channels	1
Wire	2-wire or 3-wire
Interface	2-wire 4-20mA
Power	DC12~24V 1A
Running temperature	-30~85℃
Working humidity	5%RH~90%RH

Product Size



Wiring mode

RS485 Wiring

	RD	PWR+
	GN	PWR-
	YE	RS485 A+
	BU	RS485 B-

※Note: When wiring, connect the positive and negative poles of the power supply first, and then connect the signal wire

Wiring instructions

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.

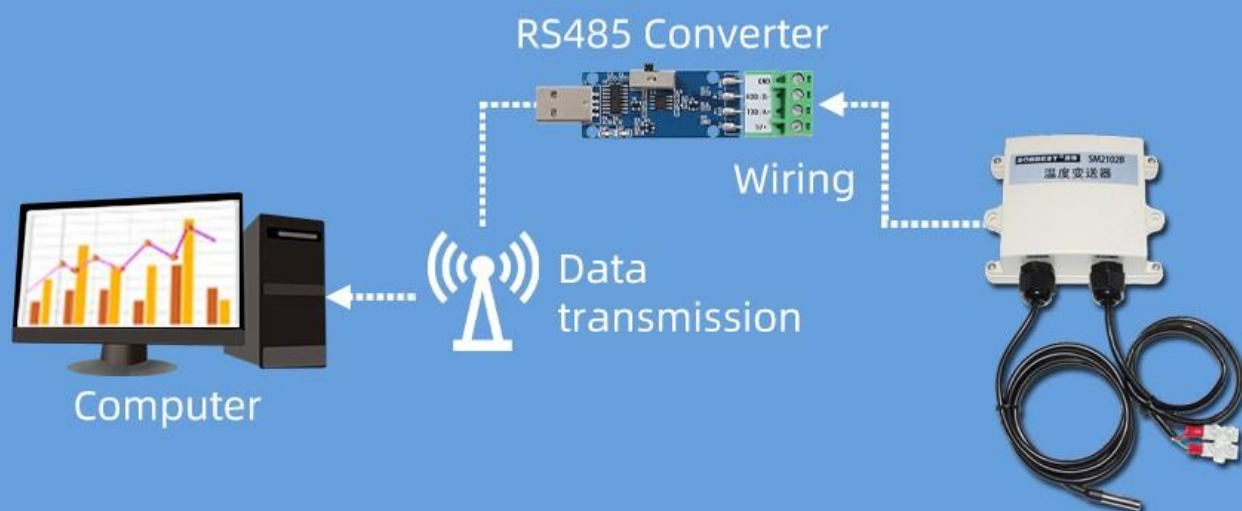
How to use?

RS485 protective PT1000 temperature sensor can be widely used in grain warehouses, heat source heat pumps, machine room workshops, libraries, museums, offices, archives and other indoor temperature measurement fields



Application solution

■ RS485 Wiring



Product List



Protected 4-20mA temperature
PT1000 current transmitter



Reminder card



Certificate

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