SD1202B-8

8-channel RS485 interface PT1000 temperature centralized acquisition instrument

User Manual

File Version: V23.7.30

SD1202B-8 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
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	8
Wire	2-wire or 3-wire
Communication Interface	RS485
Default baud rate	9600 8 n 1
Power	DC9~24V 1A
Running temperature	-30~85℃
Working humidity	5%RH~90%RH

Product Size
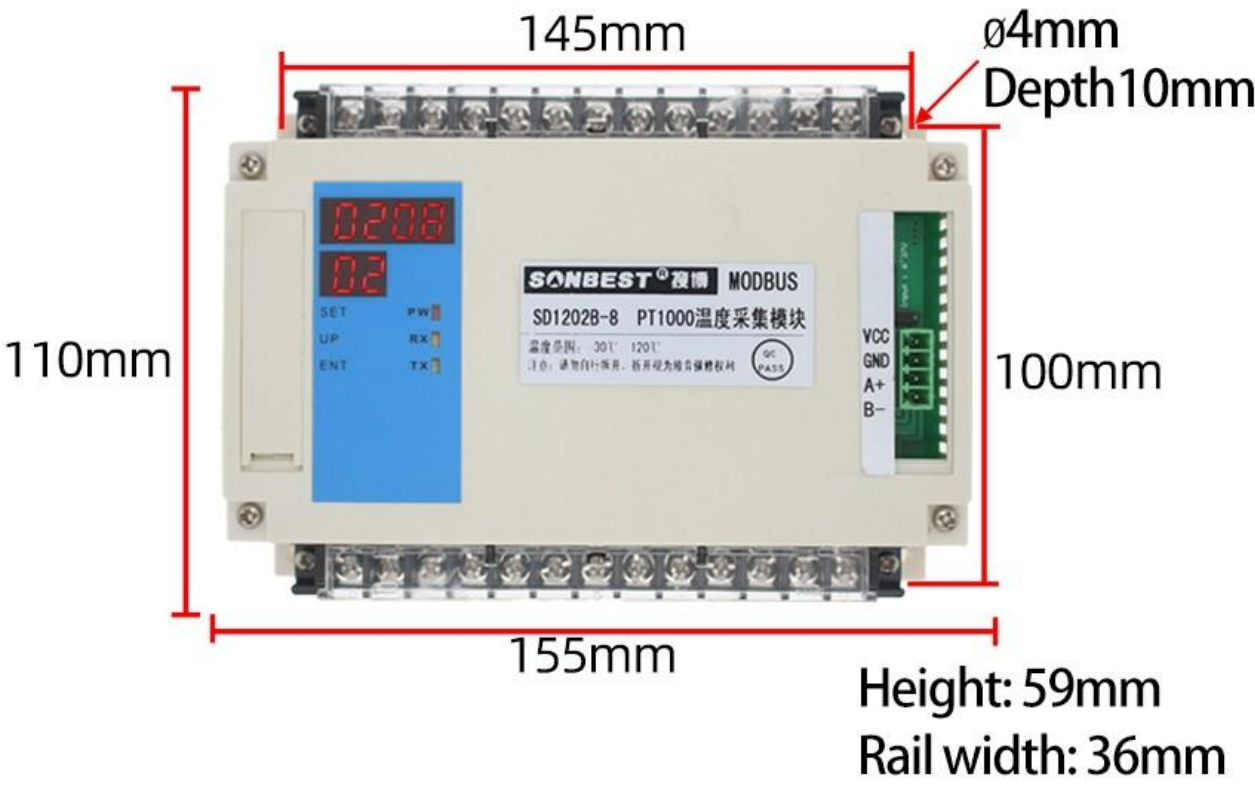
Connection mode

WIRING

V+	PWR+	A1	Pt1000 Signal line A
		B1	Pt1000 Signal line B
V-	PWR-	C1	Pt1000 Signal line C
		......	
A+	RS485 A+	A8	Pt1000 Signal line A
B-	RS485 B-	B8	Pt1000 Signal line B
		C8	Pt1000 Signal line C

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

Two-wire system and three-wire system wiring method:

Cn   Bn   An

Short

PT1000
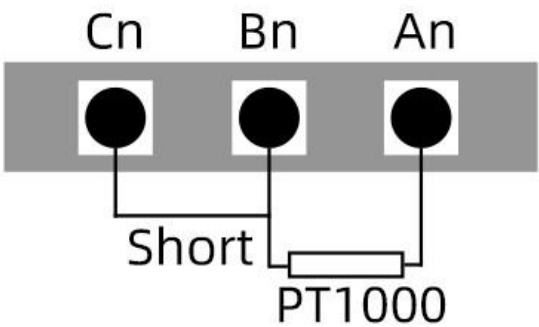
Two-wire connection

Cn   Bn   An

PT1000
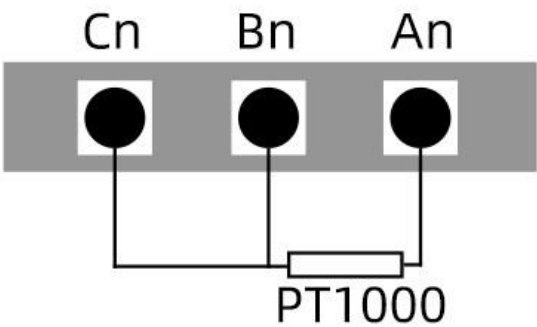
Three-wire connection

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?

The temperature collection module can be widely used in indoor temperature measurement fields such as granary warehouses, heat source heat pumps, computer room workshops, libraries, museums, offices, archives, etc.

Application solution

■ Single module application scheme
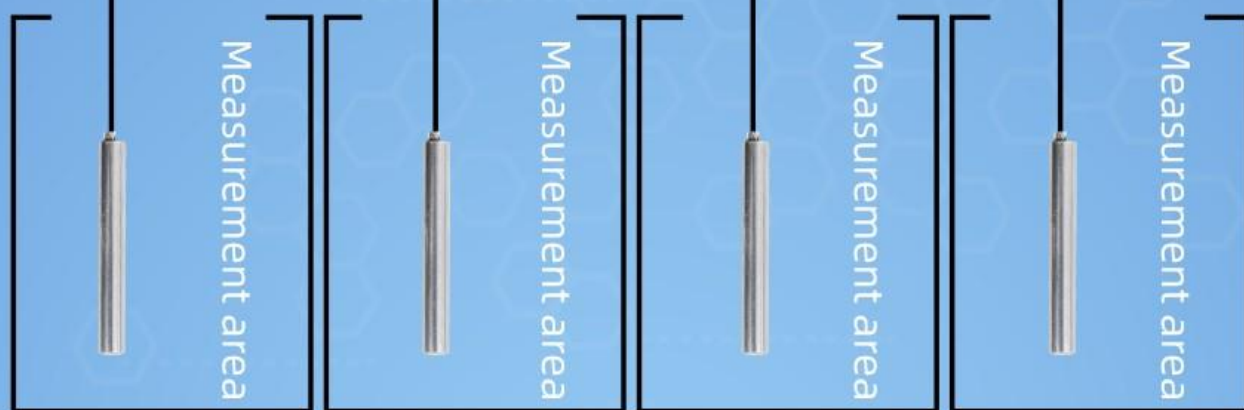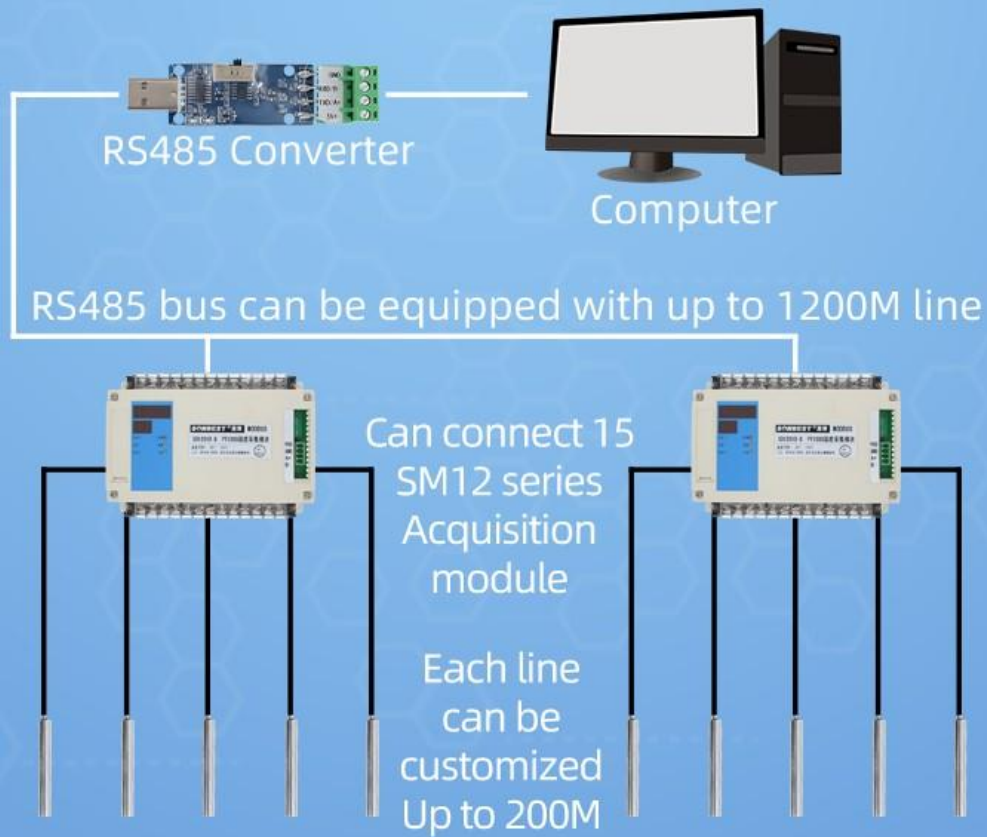
Acquisition module

485 Converter

Can be equipped with up to 1200M line
Up to 16 temperature probes can be connected, the length can reach 200M

Computer

Measurement area

Measurement area

Measurement area

Measurement area

■ Multi-module application scheme

RS485 Converter

Computer

RS485 bus can be equipped with up to 1200M line

Can connect 15 SM12 series Acquisition module

Each line can be customized Up to 200M
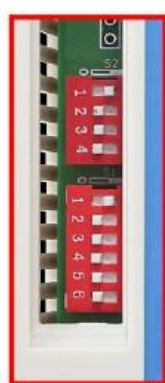
SETTING

In the application, it is sometimes necessary to use multiple machines in a network connection, and the device addresses in the network cannot be the same, so the user changes the device address, and the address range is 1-63. The change of the device address of this device is realized by the code switch S1. The dial switch to "ON" means "1", and the "digital terminal" means "0". The relationship between segments 1-6 of the dial switch S1 and the address is shown in the following table:

DIP switch S1 (the number marked on the DIP switch is the segment number)						Device address
Segment 6	Segment 5	Segment 4	Segment 3	Segment 2	Segment 1	
0	0	0	0	0	1	1
0	0	0	0	1	0	2
0	0	0	0	1	1	3
...	...	...	...	...	...	...
1	1	1	1	1	1	63

Open the top cover

The default device address is 1, and the dial position is shown in the figure.

Note: The device must be restarted (power off) to set the new device address to take effect

Product List

SD1202B-8
Temperature acquisition module

Kind reminder card

certificate

Communication Protocol
Disclaimer

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