

**SM1201C-8****CAN bus interface 8-channel PT100 temperature acquisition  
module****User Manual**

File Version: V23.7.3



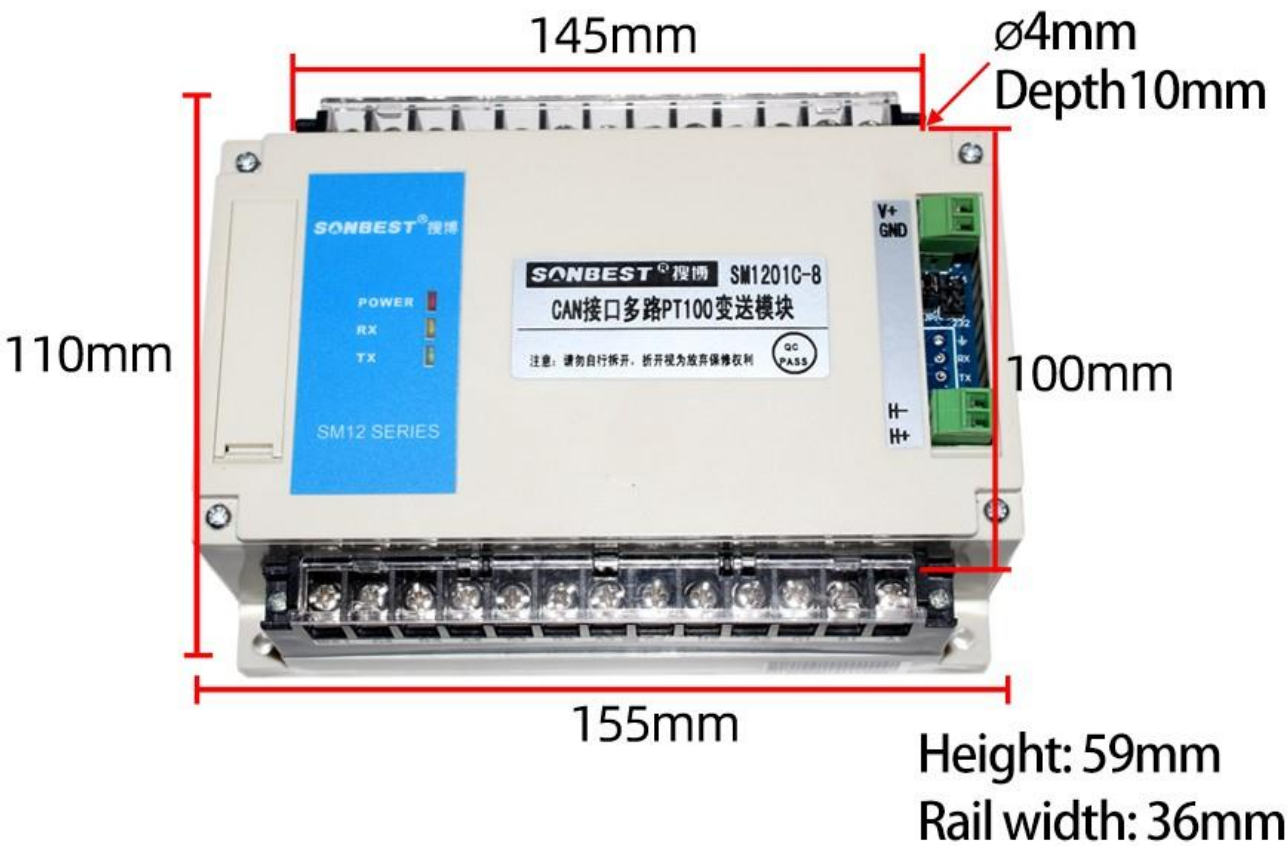
SM1201C-8 using the standard DC4-20mA current output signal,easy access to PLC，DCS and other instruments or systems for monitoring temperature@8 state quantities.The internal use of high-precision sensing core and related devices to ensure high reliability and excellent long-term

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	PT100
Temperature Measurement Accuracy	± 0.5℃ (0.5FS)
Thermal Response Coefficient	10mΩ/K
The resistance @ ℃	1000Ω±0.12Ω/K
The resistance rate	0.385Ω/K
Reference Standards	Using EN 60751 Class B Standards
Channels	8
Communication Interface	DC4~20mA
Power	DC6~24V 1A
Running temperature	-30~85℃
Working humidity	5%RH~90%RH

Product Size



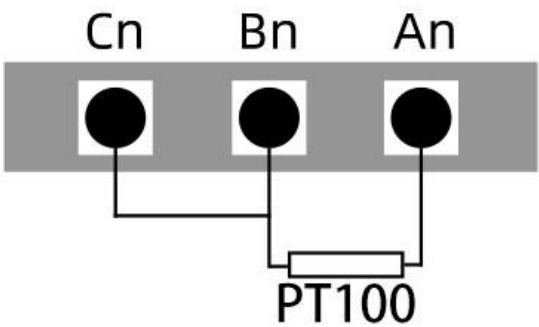
# Connection mode

## WIRING

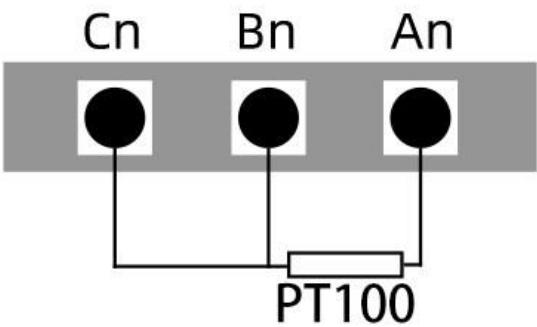
		A1	Pt100 Signal line A
		B1	Pt100 Signal line B
		C1	Pt100 Signal line C
		.....	
V+	PWR+	A8	Pt100 Signal line A
V-	PWR-	B8	Pt100 Signal line B
A+	RS485 A+	C8	Pt100 Signal line C
B-	RS485 B-		

※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:



Two-wire connection



Three-wire connection

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.

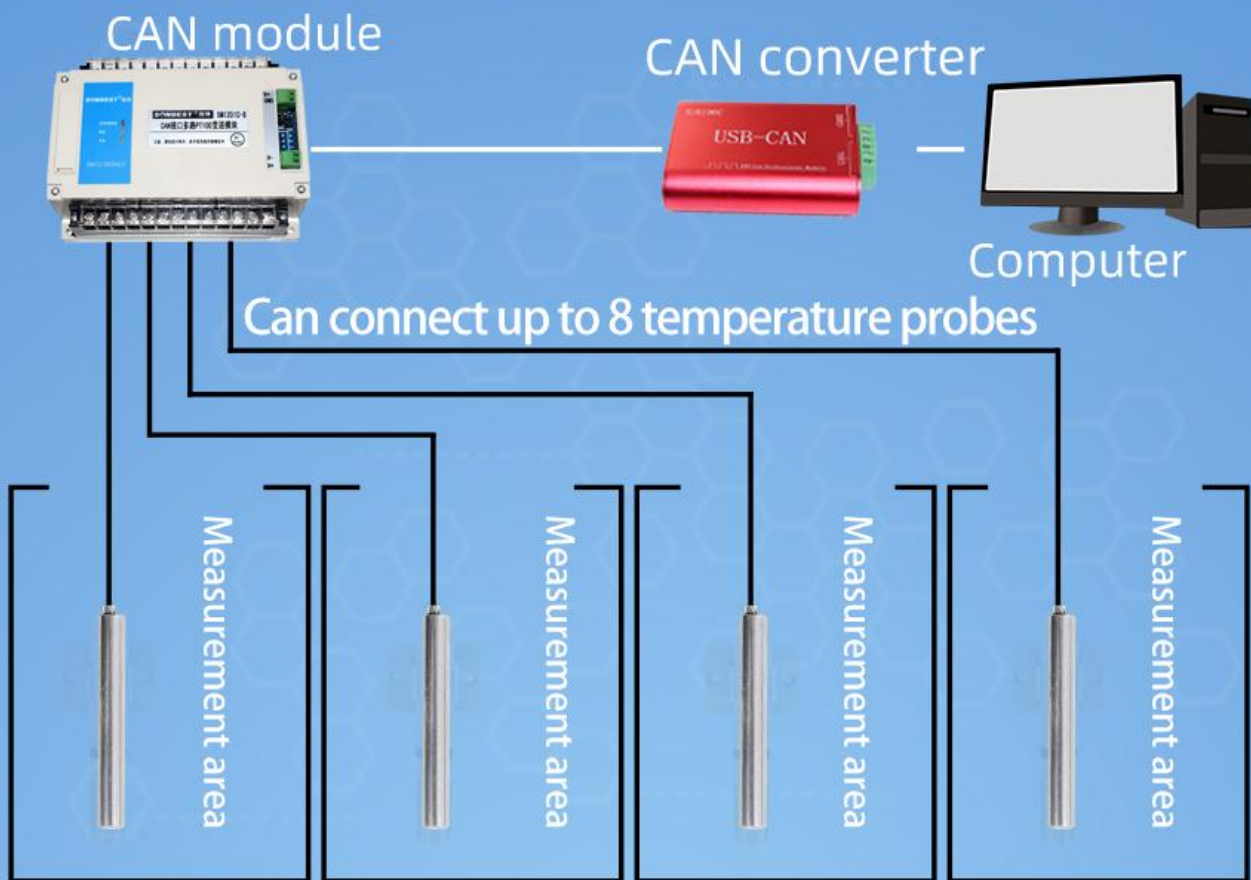
### **How to use?**

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 solution





## ■ Multi module application solution



CAN converter



Computer

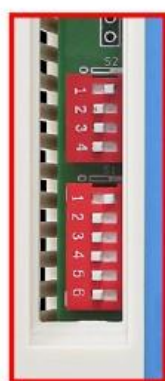
CAN bus can be equipped with up to 500 meters of leads



# 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



Multiple CAN interfaces  
PT100 transmitter module



Warm reminder card



Certificate of conformity

## Disclaimer

This document provides all information about the product, does not grant any license to intellectual property, does not express or imply, and prohibits any other means of granting any intellectual property rights, such as the statement of sales terms and conditions of this product, other issues. No liability is assumed. Furthermore, our company makes no warranties, express or implied, regarding the sale and use of this product, including the suitability for the specific use of the product, the marketability or the infringement liability for any patent, copyright or other intellectual property rights, etc. Product specifications and product descriptions may be modified at any time without notice.

## Contact Us

Company: Shanghai Sonbest Industrial Co., Ltd

Address: Building 8, No.215 North east road, Baoshan District, Shanghai, China

Web: <http://www.sonbest.com>

Web: <http://www.sonbus.com>

SKYPE: soobuu

Email: [sale@sonbest.com](mailto:sale@sonbest.com)

Tel: 86-021-51083595 / 66862055 / 66862075 / 66861077