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SONBEST KM12B01 PT100 8-Channel Temperature Acquisition Module User Manual

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**SONBEST KM12B01 PT100 8-Channel Temperature Acquisition Module**

KM12B01 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	KLHA
Temperature measurement range	-50°C to +100°C (optional with other ranges)
Detecting Core Devices	PT100
Temperature Measurement Accuracy	± 0.5°C (0.5FS)
Thermal Response Coefficient	10mΩ/K
The resistance @ °C	1000Ω±0.12Ω/K
The resistance rate	0.385Ω/K
Reference Standards	Using EN 60751 Class B Standards
Channels	8
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

Product Size

ø4mm
Depth 10mm

145mm

110mm

100mm

155mm

H:155mm
Rail width:36mm
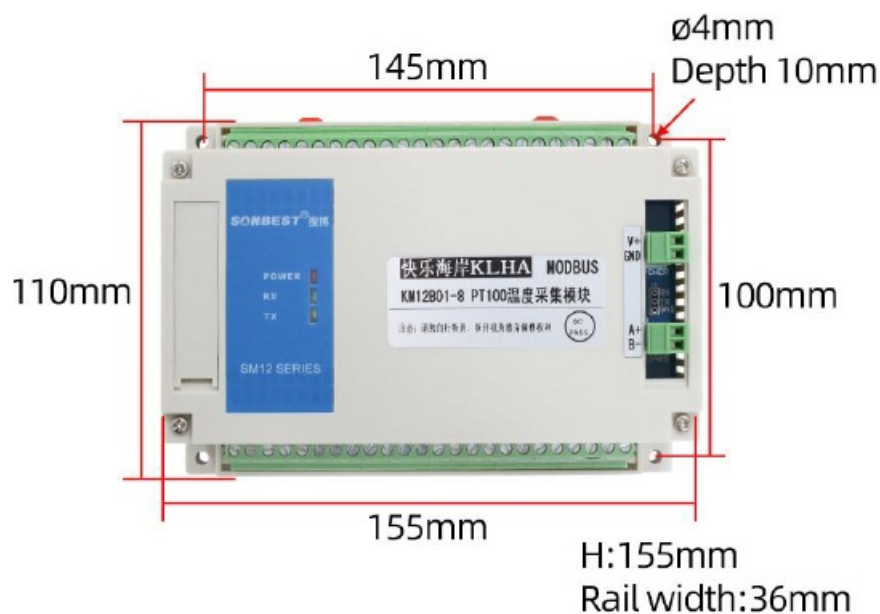
How to wiring?

RS485 Wiring

V+	PWR+
V-	PWR-
A+	RS485 A+
B-	RS485 B-

PT100 Wiring

A1	Pt100 Signal line A
B1	Pt100 Signal line B
C1	Pt100 Signal line C
......	
A1	Pt100 Signal line A
B1	Pt100 Signal line B
C1	Pt100 Signal line C

※Note: When wiring, the positive and negative poles of the power supply should be connected first, and then the signal wire should be connected.

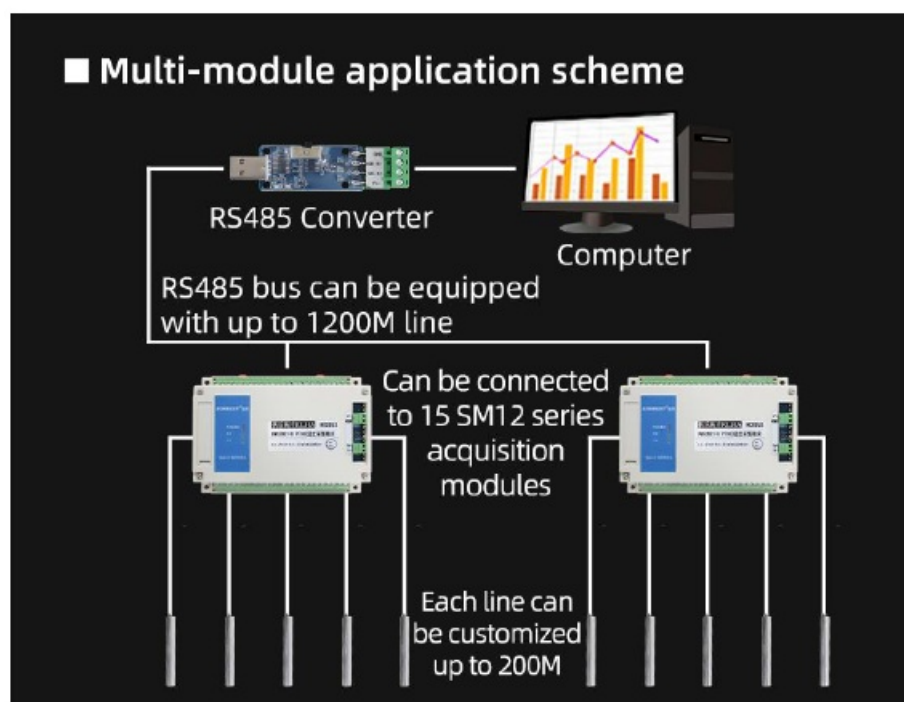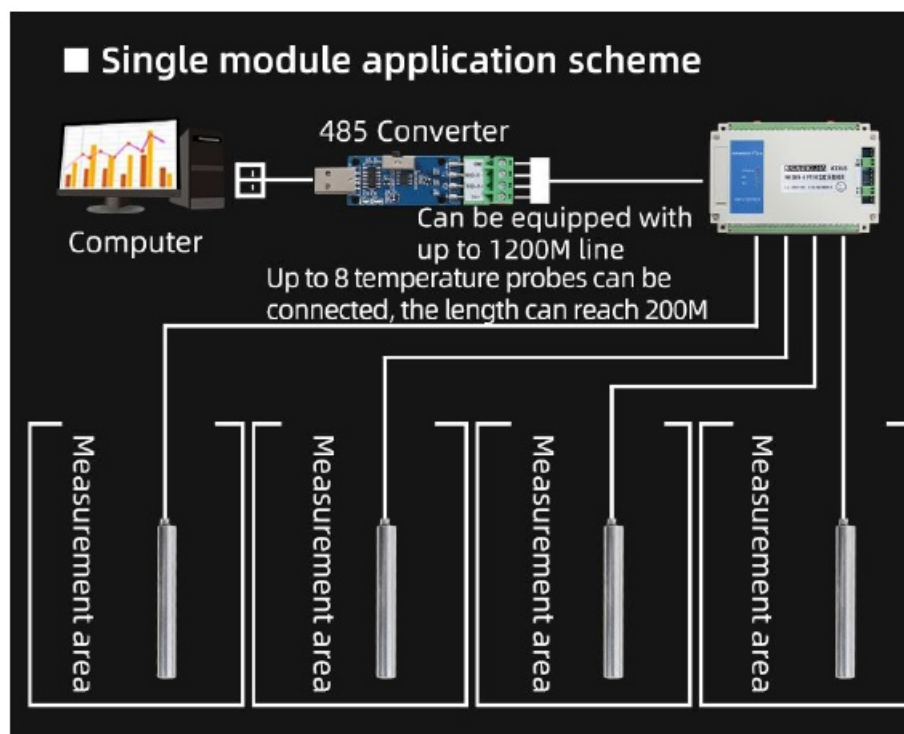Two-wire system and three-wire system wiring method:

Cn　Bn　An
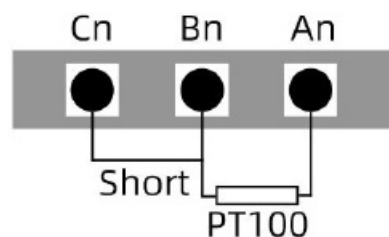
Short
PT100
Two-wire connection

Cn　Bn　An
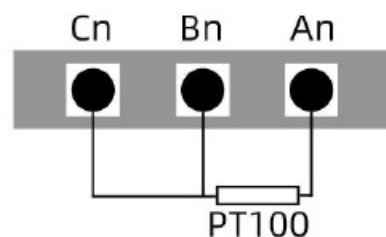
PT100
Three-wire connection

Application solution

■ Single module application scheme

485 Converter

Computer

Can be equipped with up to 1200M line
Up to 8 temperature probes can be connected, the length can reach 200M

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

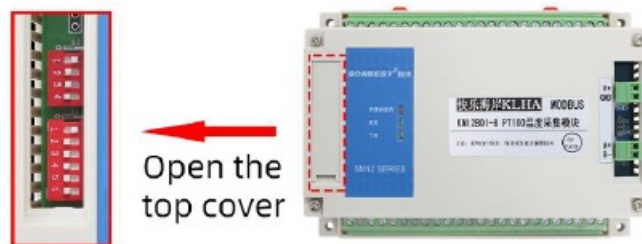Can be connected to 15 SM12 series acquisition modules

Each line can be customized up to 200M

DEVICE ADDRESS 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 51. When the DIP switch is turned to "ON", it means "l ", and the "digital terminal" means "O". The relationship between segments 1-6 of the DIP switch 51 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

how to use?

Communication Protocol Disclaimer

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Documents / Resources

SONBEST KM12B01 PT100 8-Channel Temperature Acquisition Module [pdf] User Manual
KM12B01, PT100 8-Channel Temperature Acquisition Module, Temperature Acquisition
Module, Acquisition Module

References

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