

PCT380 Smart Temperature Transmitter



- Can convert all inputs to 4-20 mA
- Input: thermocouples, RTD, resistance or voltage
- Configuration directly via PDA or PC
- Build-in cold junction compensation
- Available with screw-in temperature probe

PCT380 Intelligent temperature transmitter (round card) is used for the signal input of resistance temperature detector (RTD) and thermocouple (TC), linear resistance input, and 4 - 20mA analog output of the two-wire system. It is installed inside the sensor(Form B).

Technical Parameters

Input	
Input signal	Resistance temperature detector (RTD), thermocouple (TC),
Cold-junction compensation temperature scope	-20~60℃
Compensation precision	±1℃
Output	
Output signal	4-20mA
Load resistance	$RL \leq (U_e - 12) / 0.021$
Output current of upper and lower limit overflow alarm	I _H =21mA、I _L =3.8mA
Power supply	
Supply voltage	DC12-40V
Other parameters	
Temperature drift	0.02%FS/℃
Response time	Reach to 90% of the final value for 1s
Used environmental temperature	-40~80℃
Storage temperature	-40~100℃
Aseismicity	4g/2~150Hz
Installation angle	Unlimited
Installation area	B-type top cassette installation
Electromagnetic compatibility	Conform to GB/T18268 industrial equipment application requirements (IEC 61326-1)

Input Type and Transmission Accuracy

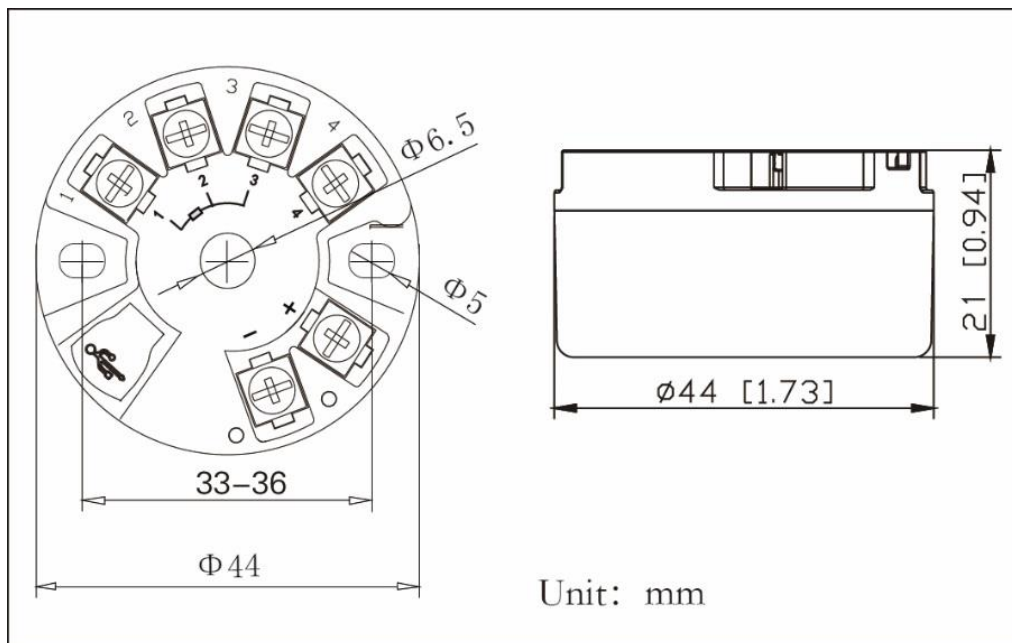
Model	Type	Measurement scope	Minimum measurement scope	Conversion accuracy
Resistance	Pt100	-200~850℃	20℃	±0.1%range Or±0.2℃
Temperature detector (RTD)	Cu50	-50~150℃	20℃	±0.1%range Or±0.2℃
Thermocouple (TC)	B	100~1820℃	500℃	±0.1%range Or±1.5℃
	E	-100~1000℃	50℃	±0.1%range Or±0.5℃
	J	-100~1200℃	50℃	±0.1%range Or±0.5℃

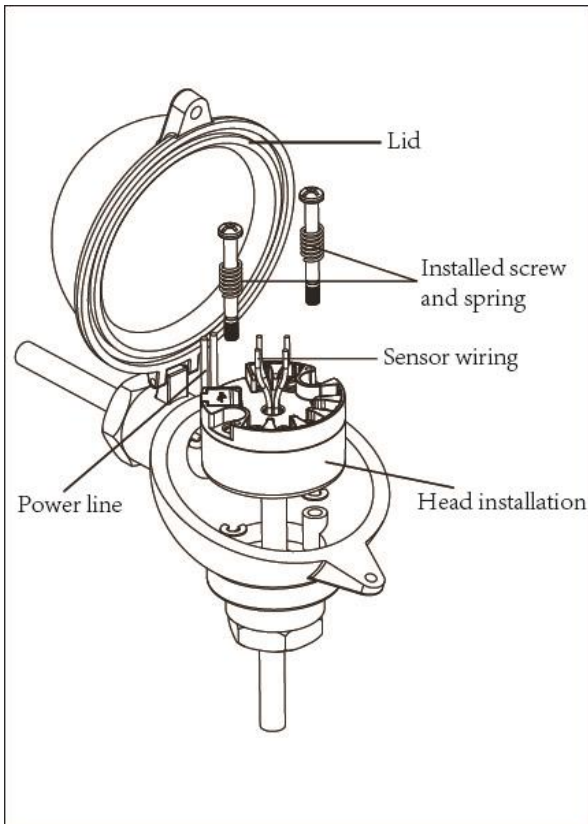
K	-180~1372°C	50°C	±0.1%range Or±0.5°C
N	-180~1300°C	50°C	±0.1%range Or±0.5°C
R	-180~1300°C	500°C	±0.1%range Or±1.5°C
S	-50~1768°C	500°C	±0.1%range Or±1.5°C
T	-200~400°C	50°C	±0.1%range Or±0.5°C
Wre3-25	0~2315°C	500°C	±0.1%range Or±1.5°C
Wre5-26	0~2310°C	500°C	±0.1%range Or±1.5°C

Notes:

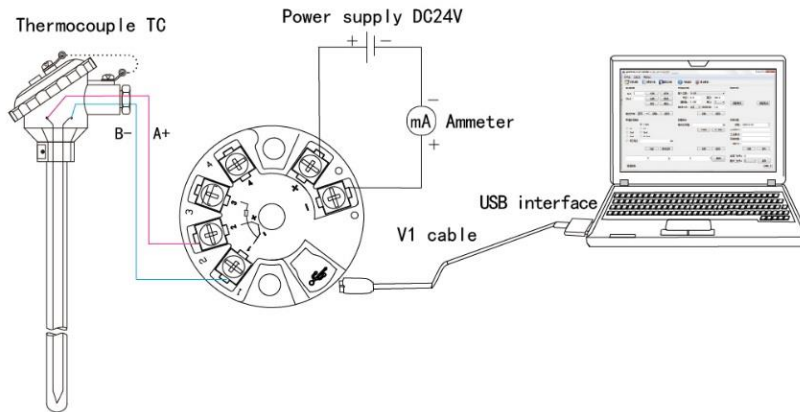
1. The above accuracy data was obtained by testing at an ambient temperature of 20 °C ± 2 °C.
2. The output precision “%” is relative to the set range.
3. The cold end compensation error needs to be added to the thermocouple measurement, and the internal cold end compensation error is ≤±1°C.

Appearance Structure Diagram

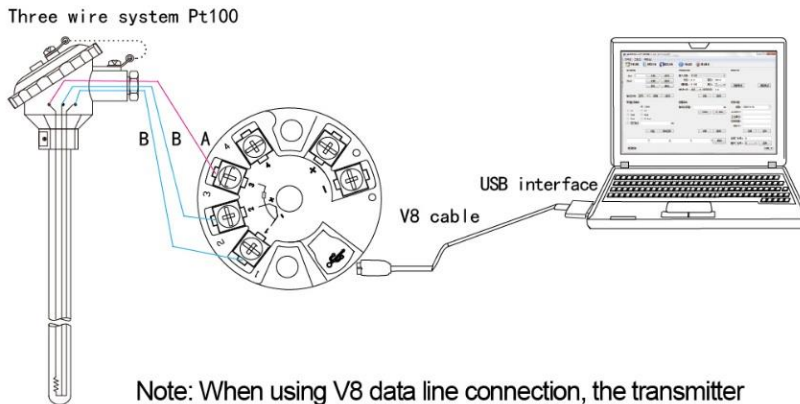




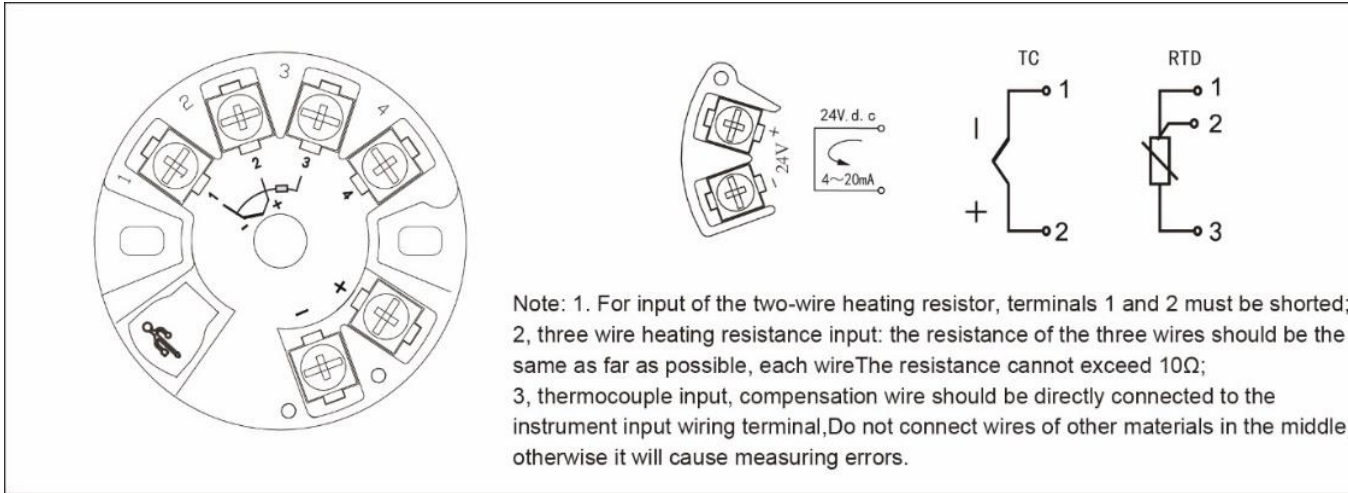
V1 data line connection mode:



V8 data line connection mode:



Note: When using V8 data line connection, the transmitter is not allowed to connect 24V power supply.



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