

Temperature transmitter module

PH-WZ**(Common type)

PH intelligent temperature transmitter, used for RTD, TC, two wire 4~20mA analog output, montage in sensor internally (Form B).

- Input and output no isolated;
- Through HART protocol, use PDA operator or PC for configuration;
- High accuracy, built in cold junction compensation;
- Suitable for various type of sensors enclosure.



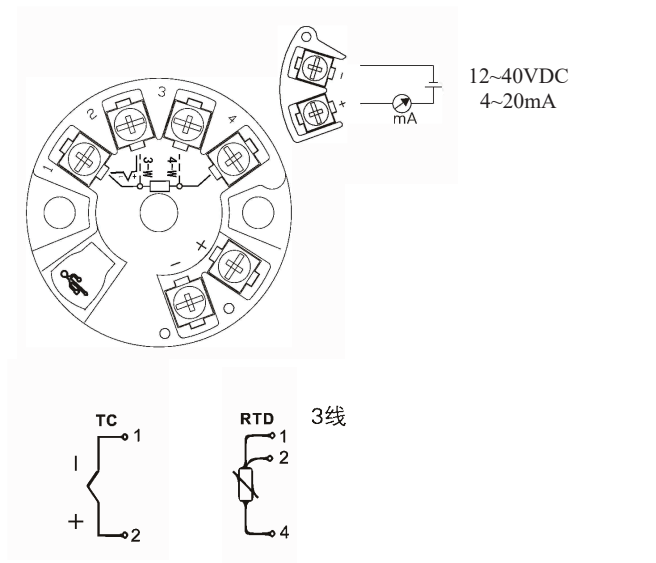
Technical data

Input:	
Input signal	RTD, TC
TC CJC range	-20 ~ + 60°C
TC CJC accuracy	±1°C
Output:	
Output signal	two wire 4~20mA
Max. load	$R_L \leq (U_e - 7.5) / 0.022$
Alarm current	Sensor damage or sensor break circuit output 3.9mA or 22mA (except TC)
Basic parameters:	
Power voltage	12~40V DC
Circuit limits	≤22mA
Response time	≤1s
Temperature drift	0.001%F.S/°C
EMC	GB/T 18268(IEC 61326-1)
Conversion accuracy	Please refer to "Input Signal Type and Range Table" for details
Working temperature	-40 ~ +85°C
Storage temperature	-40 ~ +100°C
Installation area	At the top of B box-like type

Input Signal Type and Range Table

Model	Type	Measurement range	Min. measurement range	Conversion accuracy
RTD	Pt100	-200 ~ 600°C	20°C	0.2°C/0.1%
	Cu50	-50 ~ 150°C	20°C	0.2°C/0.1%
	Cu100	-50 ~ 150°C	20°C	0.2°C/0.1%
TC	B	0 ~ 1820°C	500°C	1.5°C/0.1%
	E	-200 ~ 1000°C	50°C	0.5°C/0.1%
	J	-200 ~ 1200°C	50°C	0.5°C/0.1%
	K	-200 ~ 1372°C	50°C	0.5°C/0.1%
	N	-270 ~ 1300°C	50°C	0.5°C/0.1%
	R	-50 ~ 1768°C	500°C	1.5°C/0.1%
	S	-50 ~ 1768°C	500°C	1.5°C/0.1%
	T	-200 ~ 400°C	50°C	0.5°C/0.1%

Circuit connection diagram



Dimension

