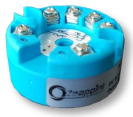
In-Head Mount Smart Temperature Transmitter

Features & Advantages

- Smart 2-wire Temperature Transmitter
- Sensor Broken Alarm
- Low Temp. Drift,Auto Calibrating Zero
- Super Low Power Consumption

	ZP020	ZP021	ZP120	ZP121
			Stop Production	Stop Production
【Input Types】	TC（K,E,S,B,R,J,T,N）、RTD(PT100,PT200,PT500,PT1000,Cu50)、R(0-400Ω,0-4000Ω)、mV(-80-+80mV)			
【Input Voltage】	9.0-30VDC	8.0-30VDC	9.0-30VDC	8.0-30VDC
【Output】	4-20mA/20-4mA	4-20mA/20-4mA	4-20mA/20-4mA	4-20mA/20-4mA
【Input/Output Isolate】	-	√	-	√
【HART】	-	-	√	√
【Programmable Items】	Input Sensor Types，RTD（2w/3w/4w），Measure Range，positive and negative Output，Damping Time，CJC Optional，Offset Set，Sensor Broken Alarm Current Optional			
【Tech Parameters】				
Loop Power Supply	9.0-30VDC	8.0-30VDC	8.0-30VDC	8.0-30VDC
CJC	±1℃（Internal Sensor）	±1℃（Internal Sensor）	±1℃（Internal Sensor）	±1℃（Internal Sensor）
Temperature Drift Factor	±0.01%/℃	±0.01%/℃	±0.01%/℃	±0.01%/℃
Response Time	≦1S(0-90%)	≦1S(0-90%)	≦1S(0-90%)	≦1S(0-90%)
Precision	≤0.1%	≤0.1%	≤0.1%	≤0.1%
Voltage Fluctuate Influence	≤±0.005% X F.S. / V DC	≤±0.005% X F.S. / V DC	≤±0.005% X F.S. / V DC	≤±0.005% X F.S. / V DC
Insulation Resistance (I/O)	—	I/O ≥100MΩ/DC500V	—	I/O ≥100MΩ/DC500V
Load Capacity	RL=（U-8.0v）/0.022A	RL=（U-8.0v）/0.022A	RL=（U-8.0v）/0.022A	RL=（U-8.0v）/0.022A
Voltage Input Impedance	≥5MΩ	≥5MΩ	≥5MΩ	≥5MΩ
TC Input Impedance*	≥5MΩ	≥5MΩ	≥5MΩ	≥5MΩ
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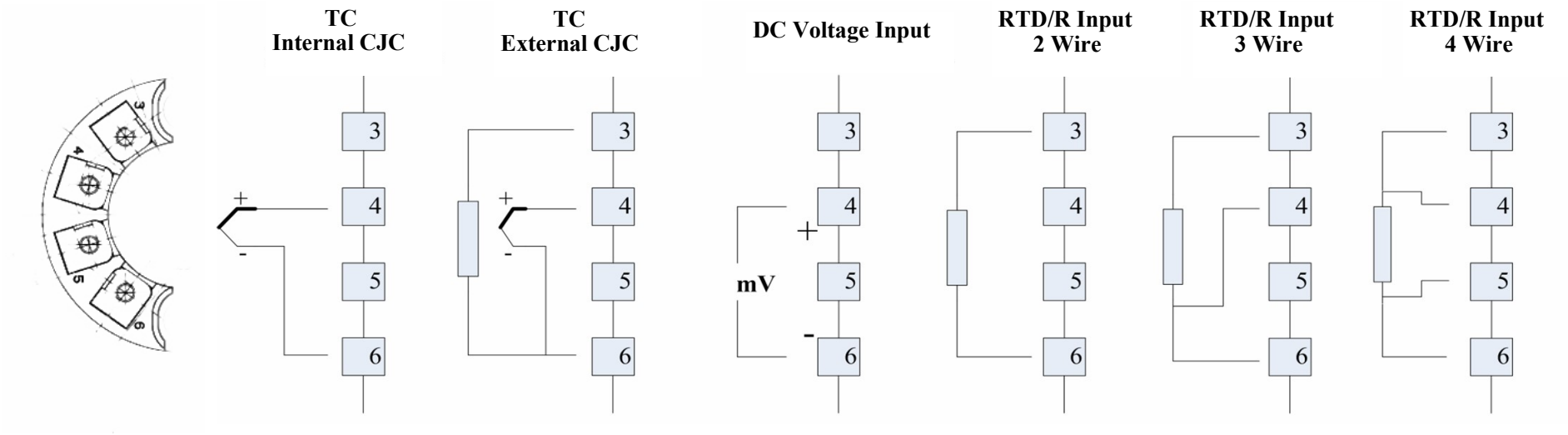
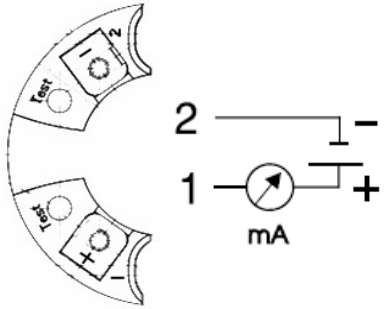
RTD/R Input Impedance	≥5MΩ	≥5MΩ	≥5MΩ	≥5MΩ
Detect Current Sensor Broken	5μA	5μA	5μA	5μA
External CJC Sensor	PT100	PT100	PT100	PT100
Input Current Detection	0.2mA(2w/3w/4w)	0.2mA(2w/3w/4w)	0.2mA(2w/3w/4w)	0.2mA(2w/3w/4w)
Isolate Capacity (I/O)	-	I/O:≥ AC1500v 1min	-	I/O:≥ AC1500v 1min
Ambient Temperature	-40-+85℃	-40-+85 ℃	-40-+85℃	-40-+85℃
Ambient Hunidity	0-95% RH	0-95% RH	0-95% RH	0-95% RH
【Size】	D44xH21mm			
【Case Material】	Green Nonflame Resin			

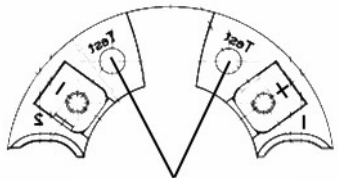
* If the function of sensor broken alarm is no needed, Input Impedance could be more than 50MΩ

Wiring Diagram





Loop Power Supply Terminal

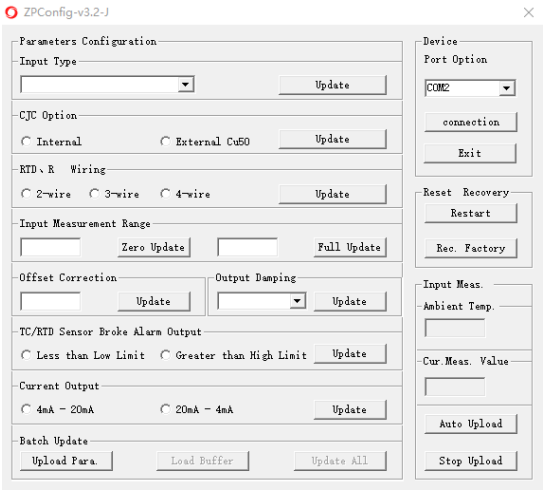


Program Setting Port

Convert Accuracy

Input Type	Min. Span	Meas. Rang e	Accuraty	Temp. Drift
DC Voltage V	5mV	−80mV ~ +80mV	± 20uV 或 0.08%	±1uV/℃
Resistor1	10Ω	0 ~ 400Ω	±0.1Ω或 0.08%	±0.01Ω/℃
Resistor2	100Ω	0 ~ 4000Ω	±1Ω或 0.1%	±0.01Ω/℃
	℃			
K	50	−270 ~ 1372	±1℃或 0.08%	±0.075℃/℃
E		−−270 ~ 1000		
J		−210 ~ 1200		
T		−270 ~ 400		
N		−270 ~ 1300		
S	500	−50 ~ 1760	±2℃或 0.08%	±0.2℃/℃
B		400 ~ 1820		
R		−50 ~ 1768		
	℃			
Pt100	50	−200 ~ 850	±0.15℃或 0.08%	±0.015℃/℃
Pt200	50		±0.3℃或 0.1%	
Pt500	50			
Pt1000	50			
Cu50	50	−50 ~ 150	±0.15℃或 0.08%	±0.2℃/℃

Accessories



ZPconfig Software

ZPlinker USB Adaptor

Installation