TP01

2-wire Type of Temperature Transmitter

PRODUCT APPLICATION

- Linearised temperature measurement with PT100Ω transmitter.
- To avoid temperature signal recession from remote measuring temperature transmission, it converts PT100Ω into standard analog current output 4 ~ 20 mA DC (2-wire).
- In this way, it provides the secondary instrument to collect a stability of accurate temperature display. For example: PLC, digital display, industrial computer...etc.

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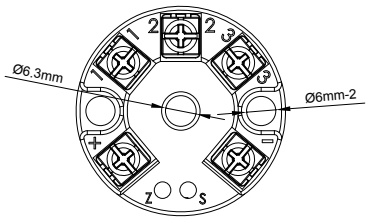
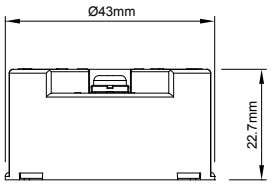
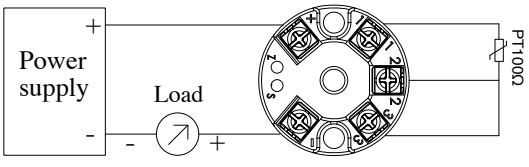
Installation	Temperature Range	
01 : Head mounting	1 : -50~+50°C 2 : -50~0°C 3 : 0~50°C	4 : 0~100°C 5 : 0~200°C W : Special span

Dimension





Connection Diagram



Technique Sheet

Input

Input signal ..... PT 100Ω (3-wire)
Input cable resistance ..... ≤ 50 Ω / wire
PT100Ω sensor current ..... < 0.8mA
PT100Ω effect of sensor cable resistance ..... 0.001Ω / Ω
ZERO adjustment range ..... ±10 %
SPAN adjustment range ..... ±10 %

Output

Output type ..... 4 ~ 20 mADC (2-wire)
Accuracy ..... ± 0.1 % FS
Load resistance ..... ≤ (supply voltage-8V) / 0.02A Ω
Load resistance stability ..... ± 0.05% / 100 Ω
Power supply stability ..... ± 0.025% / V
Thermal drift ..... < ± 0.015% fs / °C
Calibration temperature ..... 20~28°C
Response time ..... < 250 ms

Protection

PT100Ω signal disconnection, output ..... > 23mA
PT100Ω signal short circuit, output ..... < 3mA
Output signal with polarity protection ..... YES

Electrical regulation

Power supply ..... 10 ~ 30 VDC
Working ambient ..... -20~60°C, 0~95%rh (non-condensing)
Protection class ..... IP 30(housing) ; IP 00 (terminal)
Housing ..... ABS
Dimension ..... 40×20mm
Weight 40g