

TP01

2-wire RTD Temperature Transmitter for Head-mounting Type



APPLICATIONS

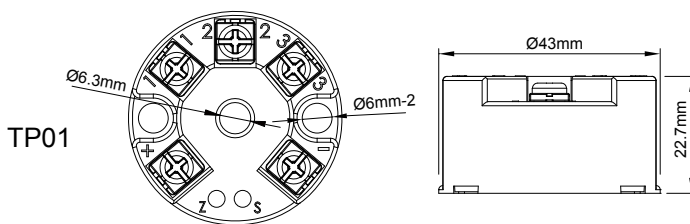
- Linearised temperature measurement with PT100 \square sensor.
- To avoid temperature signal attenuation during long-distance transmission, it converts PT100 \square into standard analog current output 4~20mA DC (2-wire)
- In this way, a stable and accurate figure can be collected and shown on the display of terminal instrument. The instrument includes PLC, digital display, industrial computer, etc.



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Product Type	Installation	Temperature Range	
P : 2-wire type	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



TECHNICAL SHEET

INPUT

Input.....PT 100 Ω (3-wire)
 Cable resistance..... $\leq 50 \Omega$ (3 wires with the same resistance)
 PT100 Ω sensor current..... $< 0.8\text{mA}$
 ZERO adjustment range..... $\pm 10 \%$
 SPAN adjustment range..... $\pm 10 \%$

OUTPUT

Output.....4~20 mA ; 2-wire
 Accuracy..... $\pm 0.1 \%$ of F.S.
 Load resistance..... $\leq (\text{supply voltage} - 8\text{V}) / 0.02\text{A}$
 Load resistance stability..... $\pm 0.05\% / 100\Omega$
 Power supply stability..... $\pm 0.025\% / \text{V}$
 Temperature drift..... $< \pm 0.015\% \text{fs} / ^\circ\text{C}$
 Calibration temperature.....20~28°C
 Response time..... $< 250 \text{ms}$

PROTECTION

PT100 Ω signal disconnection protection & output..... $> 23\text{mA}$
 PT100 Ω signal short circuit, protection & output..... $< 3\text{mA}$
 Output polarity protection.....Yes

ELECTRICAL SPECIFICATION

Power supply.....10~30 VDC
 Working temperature.....-20~60°C
 Working humidity.....0~95% rh (non-cond.)
 Protection degree.....housing: IP30 ; terminal: IP10
 Housing.....ABS(UL94V-0)
 Weight.....40g

CONNECTION DIAGRAM

