

TP01/TD01



2-wire / Digital Temperature Transmitter for Head-mounting Type

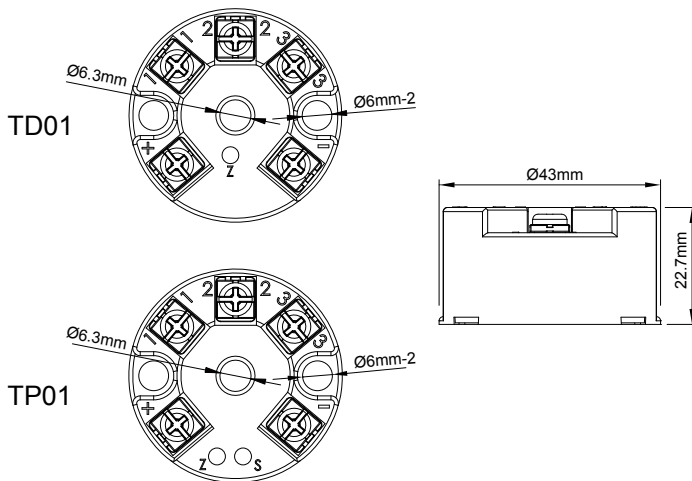
APPLICATIONS

- Linearised temperature measurement with PT100Ω sensor.
- To avoid temperature signal attenuation during long-distance transmission, it converts PT100Ω 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.



Product Type	Installation	Temperature Range	
P : 2-wire type D : digital 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 100Ω (3-wire)
 Cable resistance.....≤ 50 Ω (3 wires with the same resistance)
 PT100Ω sensor current< 0.8mA
 ZERO adjustment range.....±10 %
 SPAN adjustment range(TP01)±10 %

OUTPUT

Output.....4~20 mA ; 2-wire
 Accuracy..... TP01: ±0.1 % of F.S. / TD01 : ±0.25 % of F.S.
 Load resistance ≤ (supply voltage - 8 V) / 0.02A Ω
 Load resistance stability ±0.05% / 100Ω
 Power supply stability ±0.025% / V
 Temperature drift < ±0.015% fs / °C
 Calibration temperature 20~28°C
 Response time..... < 250 ms

PROTECTION

PT100Ω signal disconnection protection & output..... TP01: >23mA/ TD01: 22.3mA
 PT100Ω signal short circuit, protection & output TP01: < 3mA / TD01: < 3.6mA
 Output polarity protection Yes

ELECTRICAL SPECIFICATION

Power supply..... 10~30 VDC
 Working temperature..... TP01: -20~60°C / TD01: 0~55°C
 Working humidity TP01: 0~95% rh (non-cond.) / TD01: 5~95%
 Protection degree housing: IP30 ; terminal: IP00
 Housing ABS
 Weight 40g

CONNECTION DIAGRAM

