

TP04

2-wire Temperature Transmitter

Loop Powered 150 mm Stem length
Temperature range 0 > 200C

The resistance thermometer Compact design

For processes of medium to low pressure.
PT100 ohm 2 wire circuit loop powered,
Converts the resistance of the sensor to a linear temperature signal with a 4–20 ma output.

All sensor parts that come into contact to the process medium are all made from stainless steel

Different process connections and sensor lengths are available on request,

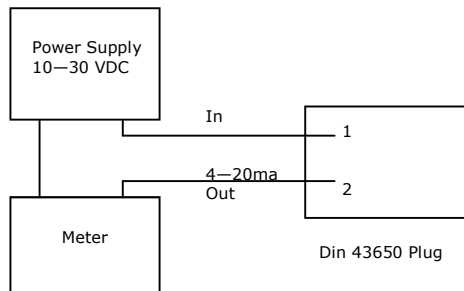


- SS housing, all-in design with anti-condensation function and good heat dissipation.
- Good measuring repeatability and anti-interference.

Applications

- Monitoring for long-distance temperature signal transmission.
- Signal transfer from PT sensor to 4-20mA.
- For industries in heating / ventilation / air conditioning / cooling / water power/ electricity, etc.
- For process in agriculture / green house / environmental engineering
- Machinery manufacturing / storage tank / compressors / hydraulic equipment.

TP04 Wiring Diagram



Technical Specifications

INPUT

Input TP04: PT100Ω ; class A
PT100Ω sensor current..... < 0.8mA
ZERO adjustment range..... ±10 %
SPAN adjustment range
..... TP04: ±10%: computer calibration

OUTPUT

Output 4~20mA ; 2-wire
Accuracy ±0.5 % of F.S.
Load resistance ≤ (supply voltage - 8 V) / 0.02A Ω
Power 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.....
..... TP04: > 23mA; TD04: > 22mA
PT100Ω signal short circuit protection & output
..... TP04: < 3mA; TD04: < 3.6mA
Output polarity protection Yes

ELECTRICAL REGULATION

Power supply..... 1 0~30 VDC
Working environment.....-20~80°C; 100% rh (non-cond.)
Storage temperature-40~85°C
Electrical connector
..... TP04: DIN 43650 ABS / TD04: M12 connector
Protection degree TP04: IP 65
Housing 5u5304