TP01

Temperature Transmitter (2-wire RTD Head-mounting Type)

Introduction

- Linearised temperature measurement with PT100 sensor
- To avoid temperature signal attenuation during long-distance transmission, it converts PT100 into standard analog current output 4 ... 0mA 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.

Features

- High quality, good anti-interference, high cost performance
- Large round head installation
- -50 ... 200 °C or Special range
- 4 ... 20 mA
- ZERO / SPAN adjustable
- Polarity protection ; Over-voltage ; Short-circuit

Application

- Integrated with thermocouple / Cooling system
- Environment / Agriculture / Air Conditioning Engineering
- Heating engineering, storage tank
- Equipment

Specification

INPUT

Input signal	RTD 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	±10 %

Accuracy

Accuracy	± 0.1 % of F.S.

OUTPUT

Output signal	4 ... 20 mA DC (2-wire)
Load resistance	≦ (supply voltage - 8 V) / 0.02A Ω
Load resistance stability	± 0.05% / 100Ω
PT100Ω signal disconnection protection & output	>23mA

Temperature
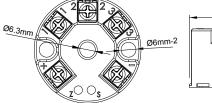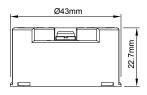
Temperature drift	< ± 0.015% fs / ℃
Calibration temperature	20 ... 28℃
Response time	< 250 ms

Environment

Medium	Air
Working temperature	-20 ... 60 ℃
Working humidity	0 ... 95 %RH (non-cond.)

Electrical specification

Power supply	10 ... 30 VDC

Protection

Protection rating	Housing : IP30
	Terminal : IP10

Certification

Certification	CE

Material

Housing	ABS (UL94V-0)
Weight	40g

Dimension

Diagram