



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 DC 4 ... 0 mA(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 ... 400°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 Pt100Ω(3-wire)
Cable resistance	≤ 50 Ω(3 wires with the same resistance)
PT100Ω sensor current	< 0.8 mA
ZERO adjustment range	± 10%
SPAN adjustment range	± 10%

Accuracy

Accuracy	± 0.1% of F.S.
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Output

Output signal	DC 4 ... 20 mA(2-wire)
Load resistance	≤ (Supply voltage - 8 V) / 0.02 A Ω
Load resistance stability	± 0.05% / 100 Ω
Pt100Ω signal disconnection protection & output	> 23 mA

Temperature

Temperature drift	< ± 0.015%F.S. / °C
Calibration temperature	20 ... 28°C
Response time	< 250 ms

Environment

Medium	Air
Operating temperature	-20 ... 60°C
Operating humidity	0 ... 95 %RH(Non-condensing)

Electrical specification

Power supply	DC 10 ... 30 V
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Protection

IP rating	Housing: IP30
	Terminal: IP10

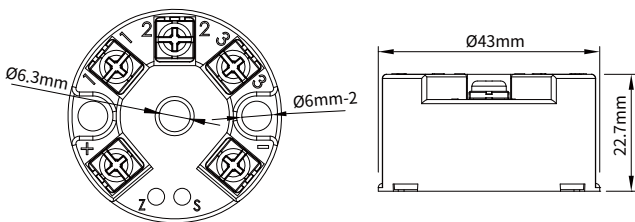
Certification

Certification	CE
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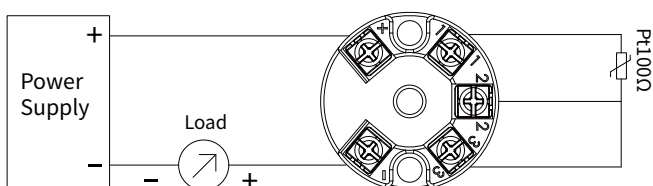
Material

Housing	ABS(UL94V-0)
Weight	40g

Dimension



Diagram



Ordering Guide

Type	TP	01	–	1	1
Installation	Head-mounting		–	1	
Temperature range	-50 ... +50°C				1
	-50 ... 0°C				2
	0 ... 50°C				3
	0 ... 100°C				4
	0 ... 150°C				W-150
	0 ... 200°C				5
	0 ... 300°C				W-300
	0 ... 400°C				W-400
	Special span(MOQ:10pcs)				W

| Additional Option (ILAC/TAF) Test Report |

TAF Calibration Lab 

Optional laboratory calibration report, please consult sales.

[More Information](#) > [Yuden Website](#) > [Calibration Service](#)

Project	Measurand level or range
Resistance thermometer	-40°C ... +300°C

※Need to cooperate with Pt100 temperature sensor