



eyc-tech TP01-14 Temperature Transmitter Instructions

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eyc-tech
Temperature-TP01
www.eyc-tech.com
Temperature Transmitter
(2-Wire RTD Head-Mounting Type)
Instructions



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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

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 ... 20 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

Applications

Integrated with thermocouple / Cooling system / Environment / Agriculture / Air conditioning engineering / Heating engineering / Storage tank / Equipment

Specification

Input	
Input signal	RTD Pt100 Ω (3-wire)
Cable resistance	$\leq 50 \Omega$ (3 wires with the same resistance)
PT100 Ω sensor current	0.8 mA
ZERO adjustment range	$\pm 10\%$
SPAN adjustment range	$\pm 10\%$

Output

Signal	
Load resistance	DC 4 ... 20 mA(2-wire)
Load resistance stability	$\leq (\text{Supply voltage} - 8 \text{ V}) / 0.02 \text{ A } \Omega$
Pt100 Ω signal disconnection	$\pm 0.05\% / 100 \Omega$
protection & output	23 mA

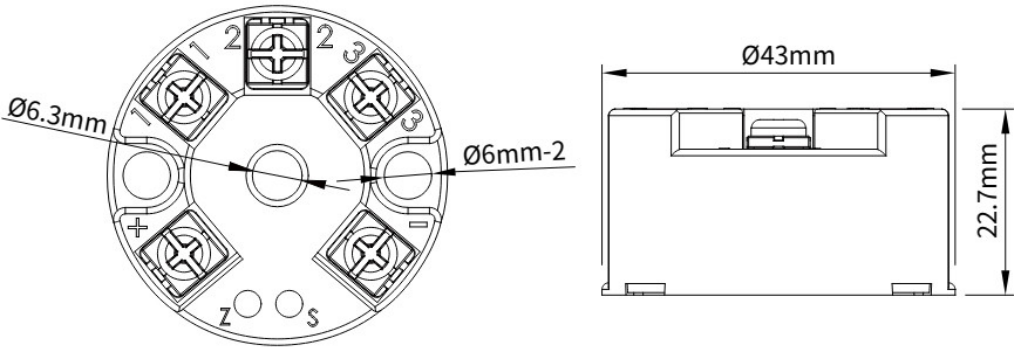
Accuracy

Accuracy	$\pm 0.1\%$ of F.S.
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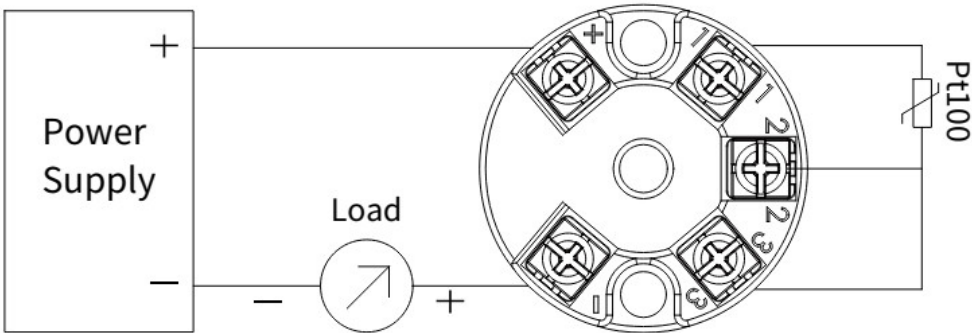
Temperature

Temperature drift	$\pm 0.015\%$ F.S. / $^{\circ}\text{C}$
Calibration temperature	20 ... 28 $^{\circ}\text{C}$
Response time	250 ms

| Dimension |



Connection Diagram



Installation Temperature range

TP01

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Head-mounting

Additional Option Test Report

■ ILAC / TAF

YUDEN-TECH CO.,LTD. Calibration Laboratory – (ILAC / TAF) Test report.

(TAF accreditation 3032, complying with ISO / IEC 17025) TAF has mutual recognition arrangement with ILAC MRA

Project	Measurand level or range
Resistance thermometer	-40°C ... +300°C
Thermocouple thermometer	-20°C ... +300°C

※Need to cooperate with Pt100 temperature sensor

■ ISO 9001

	Measurand level or range
RTD / Thermocouple	Resistance thermometer -40°C ... +300°C
	Thermocouple thermometer -20°C ... +300°C



Documents / Resources

	eyc-tech TP01-14 Temperature Transmitter [pdf] Instructions TP01-14 Temperature Transmitter, TP01-14, Temperature Transmitter, Transmitter
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