



TP04

Temperature-TP04

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Temperature Transmitter (2-wire for duct type)



| Features |

- SS Housing, all-in design with anti-condensation function and good heat dissipation
- Good measuring repeatability and anti-interference
- Monitoring for long-distance temperature signal transmission
- Signal transfer from PT sensor to 4 ... 20 mA
- With SD05 integrated signal indicator for local display(Optional)

| Applications |

For industries in heating / Ventilation / Air conditioning / Cooling / Water power / Electricity, etc. /

For process in agriculture / Green house / Environmental engineering / Food / Pharmaceutical industry /

Machinery manufacturing / Storage tank / Compressor / Hydraulic equipment

| Specifications |

Input

Input	RTD Pt100 Ω
Pt100 Ω sensor current	< 0.8 mA
ZERO adjustment range	$\pm 10\%$
SPAN adjustment range	$\pm 10\%$

Output

Output	DC 4 ... 20 mA((2-wire)
Accuracy	$\pm 0.5\%$ of F.S.
Load resistance	$\leq (\text{Supply voltage} - 8 \text{ V}) / 0.02 \text{ A } \Omega$
Power stability	$\pm 0.025\%$ / V
Temperature drift	$< \pm 0.015\%$ F.S. / $^{\circ}\text{C}$
Calibration temperature	20 ... 28 $^{\circ}\text{C}$
Response time	< 250 ms

Protection

Pt100 Ω signal disconnection protection & output	> 23 mA
Pt100 Ω signal short circuit protection & output	< 3 mA
Output polarity protection	Yes
IP rating	IP65

Certification

Certification	CE
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Material

Housing	SUS304
Weight	50 mm : 250 g / 200 mm : 260 g

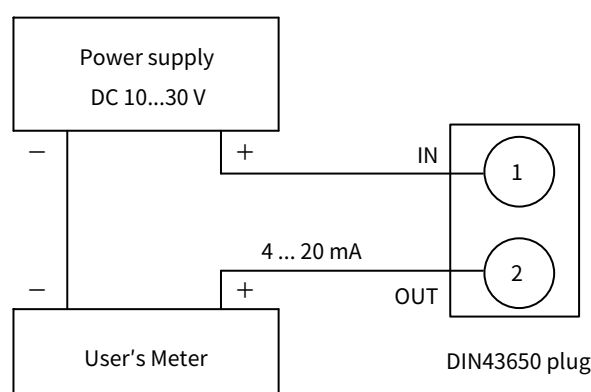
Electrical

Power supply	DC 10 ... 30 V
Electrical connector	DIN 43650 ABS

Environment

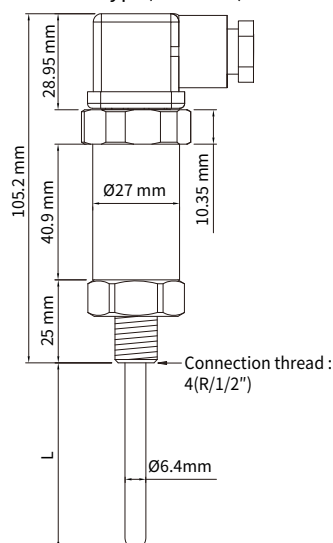
Medium	Air
Operating Temp.	-20 ... 80 $^{\circ}\text{C}$
Operating humidity	100%RH (Non-condensing)

| Diagram |

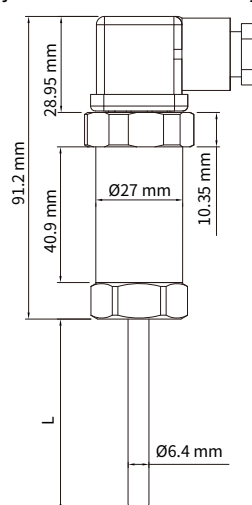


| Dimension |

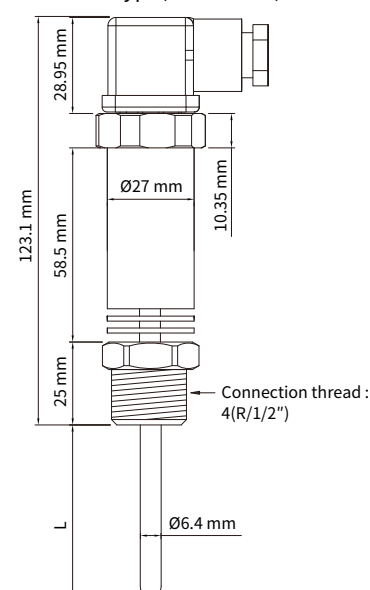
Standard type(0 ... 80°C)



Adjustable outside-thread type



Heat sink type(Max. 100°C)



| Ordering Guide |

Product ordering number	Product Specifications
TP04-1141-3NN	I/P : Pt100 Ω, O/P : 4 ... 20 mA, 1/2" PT outside thread, 50 mm, 0 ... 50 °C
TP04-1141-40N	I/P : Pt100 Ω, O/P : 4 ... 20 mA, 1/2" PT outside thread, 50 mm, 0 ... 100 °C, Heat sink
TP04-1104-3NN	I/P : Pt100 Ω, O/P : 4 ... 20 mA, w/o outside thread, 200 mm, 0 ... 50 °C (Option : connection with movable thread)
TP04-1104-4NN	I/P : Pt100 Ω, O/P : 4 ... 20 mA, w/o outside thread, 200 mm, 0 ... 100 °C (Option : connection with movable thread)

*Recommended Optional Accessories

8100140016 : 1/4" PT Movable Male Thread, SUS304

8100140017 : 1/2" PT Movable Male Thread, SUS304

T-6.4D(F)x4FPF(M)x304 : 1/2G" Movable Male Thread, SUS304

| Additional Option Test Report |

For more detailed information please contact us.

■ 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

■ ISO 9001

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