TP04

2-wire Temperature Transmitter for Duct Type

APPLICATIONS

Features

- 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 / food / pharmaceutical industry.
- Machinery manufacturing / storage tank / compressor / hydraulic equipment.

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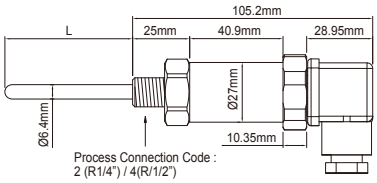
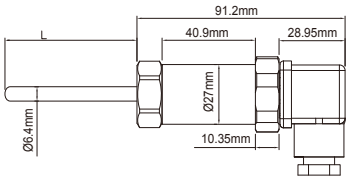
Installation	Input	Output	Process Connection	length (L)	Temperature Range	Housing	Option
04 : duct-mounting	1 : PT100Ω	1 : 4~20mA (2-wire)	2 : outside thread R1/4" 4 : outside thread R1/2" A : adjustable outside thread R1/4" B : adjustable outside thread R1/2" 0 : w/o outside thread / special thread	1 : 50mm 2 : 100mm 3 : 150mm 4 : 200mm 0 : option	1 : -50~+50°C 2 : -50~0°C 3 : 0~50°C 4 : 0~100°C 5 : 0~200°C W : special span	N : standard 0 : heat sink	N : none

DIMENSION

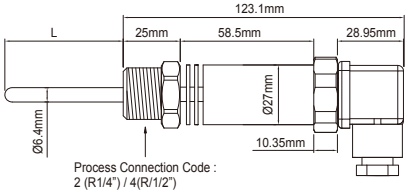
Standard Type (0 ~80°C)



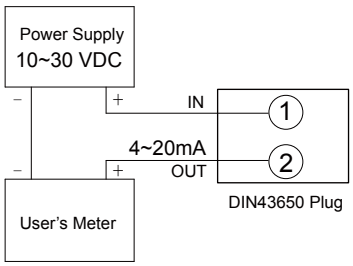
Adjustable outside-thread Type (all temperature)



Heat Sink Type (max. 100°C)



CONNECTION DIAGRAM



TECHNICAL SHEET

INPUT

Input	PT100Ω
PT100Ω sensor current	< 0.8mA
ZERO adjustment range	±10 %
SPAN adjustment range	±10 %

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	> 23mA
PT100Ω signal short circuit protection & output	> 3mA
Output polarity protection	Yes

ELECTRICAL REGULATION

Power supply	10~30 VDC
Working environment	-20~80°C ; 100% rh (non-cond.)
Storage temperature	-40~85°C
Electrical connector	DIN 43650 ABS
Protection degree	IP 65
Housing	SUS304
Weight	50mm : 250g
	200mm : 260g
Option	30mm / 80mm / 130mm / 180mm R1/2" sleeve

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