



TP02

Temperature Transmitter for DIN-Rail Type



| Features |

- Temperature range: -50 ... 200°C
- Special IC for RTD ; High accuracy is assured
- TP02 with smaller volume so lesser space for installation is required
- High quality and low price
- DIN-rail type, quick to install

| Applications |

Monitoring for long-distance temperature signal transmission / For industries in heating / Ventilation / Air conditioning / Cooling / Water power / Electricity, etc. / For process in agriculture / Green house / Environmental engineering / Food / Pharmaceutical industry

| Specifications |

Input

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

Output

Output signal	DC 4 ... 20 mA(2-wire)
Load resistance	$\leq (\text{Supply voltage} - 8 \text{ V}) / 0.02 \text{ A } \Omega$
Load resistance stability	$\pm 0.05\% / 100\Omega$
Power stability	$\pm 0.025\% / \text{V}$

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	$< 250 \text{ ms}$

Environment

Medium	Air
Operating temperature	-20 ... 60 $^{\circ}\text{C}$
Operating humidity	0 ... 95%RH(Non-condensing)

Electrical

Power supply	DC 10 ... 30 V
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Protection

Pt100 signal disconnection protection & output	$> 23 \text{ mA}$
Pt100 signal short circuit protection & output	$< 3 \text{ mA}$
Output polarity protection	Yes
IP rating	Housing : IP30 / Terminal : IP10

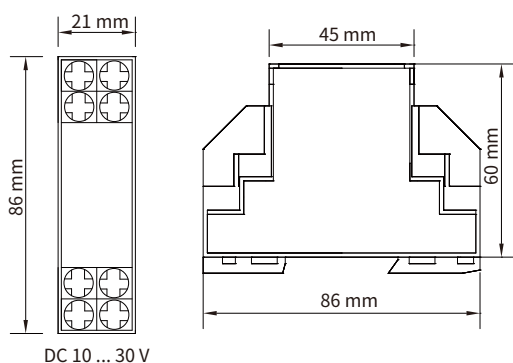
Certification

Certification	CE
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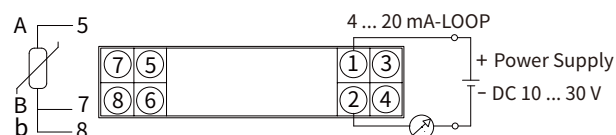
Material

Housing	ABS(UL94V-0)
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| Dimension |



| Diagram |



| Ordering Guide |

Product ordering number	Product Specifications
TP02-1110-1	I/P : PT100 Ω (3-wire), O/P : 4 ... 20 mA, -50 ... +50 $^{\circ}\text{C}$
TP02-1110-3	I/P : PT100 Ω (3-wire), O/P : 4 ... 20 mA, 0 ... 50 $^{\circ}\text{C}$
TP02-1110-4	I/P : PT100 Ω (3-wire), O/P : 4 ... 20 mA, 0 ... 100 $^{\circ}\text{C}$
TP02-1110-5	I/P : PT100 Ω (3-wire), O/P : 4 ... 20 mA, 0 ... 200 $^{\circ}\text{C}$