



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	$\pm 0.025\% / \text{V}$

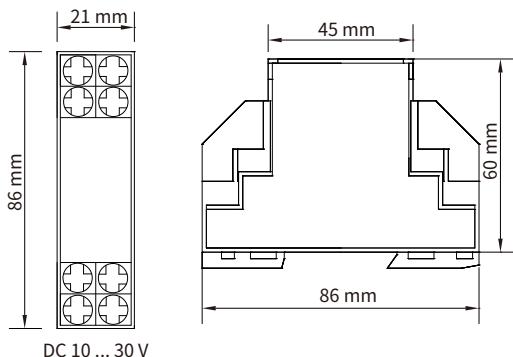
## Accuracy

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

## Temperature

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

## Dimension



## Ordering Guide

## Environment

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

## Electrical

Power supply DC 10 ... 30 V

## Protection

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

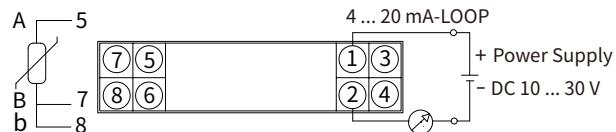
## Certification

Certification CE

## Material

Housing ABS(UL94V-0)

## Diagram



Product ordering number	Product Specifications
TP02-1110-1	I/P : PT100Ω(3-wire), O/P : 4 ... 20 mA, -50 ... +50°C
TP02-1110-3	I/P : PT100Ω(3-wire), O/P : 4 ... 20 mA, 0 ... 50°C
TP02-1110-4	I/P : PT100Ω(3-wire), O/P : 4 ... 20 mA, 0 ... 100°C
TP02-1110-5	I/P : PT100Ω(3-wire), O/P : 4 ... 20 mA, 0 ... 200°C