

# TP02

## Temperature Transmitter for DIN-rail Type



### APPLICATIONS

#### Features

- 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

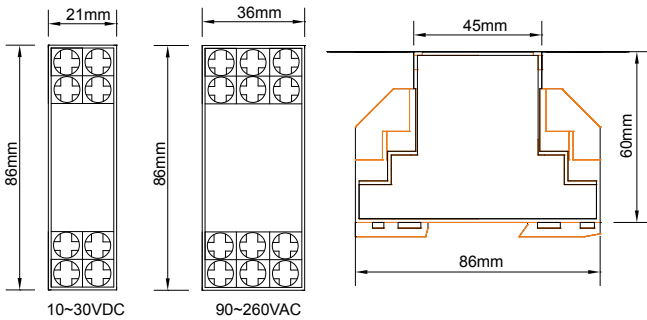
- Monitoring for long-distance temperature signal transmission.
- For industries in heating / ventilation / air conditioning / cooling / water power / electricity, etc.
- For process in agriculture / green house / environmental engineering / food / pharmaceutical industry.



TP **02** - **1** **1** **1** **0** - **1**

Installation	Function	Input	Output	Power Supply	Temperature Range
02 : DIN-rail way	1 : 1-channel	1 : PT100Ω (3-wire)	1 : 4~20mA	0 : 10~30VDC (2-wire loop power) 2 : 90~260VAC	1 : -50~+50°C 2 : -50~0°C 3 : 0~50°C 4 : 0~100°C 5 : 0~200°C W : special span

### DIMENSION



### TECHNICAL SHEET

#### INPUT

Input.....PT 100Ω (3-wire)  
 Cable resistance..... $\leq 50 \Omega$  (3 wires with the same resistance)  
 PT100Ω sensor current..... $< 0.8\text{mA}$   
 ZERO adjustment range..... $\pm 10\%$   
 SPAN adjustment range..... $\pm 10\%$

#### OUTPUT

Output.....4~20mA ; 2-wire  
 Accuracy..... $\pm 0.1\%$  of F.S.  
 Load resistance..... $\leq (\text{supply voltage} - 8\text{V}) / 0.02\text{A}$   
 Load resistance stability..... $\pm 0.05\%$  / 100Ω  
 Power stability..... $\pm 0.025\%$  / V  
 Temperature drift..... $< \pm 0.015\%$  fs / °C  
 Calibration temperature.....20~28°C  
 Response time..... $< 250\text{ms}$

#### PROTECTION

PT100Ω signal disconnection protection & output..... $> 23\text{mA}$   
 PT100Ω signal short circuit protection & output..... $< 3\text{mA}$   
 Output polarity protection.....Yes

#### ELECTRICAL SPECIFICATION

Power supply.....10~30 VDC / 90~260 VAC  
 Operation frequency.....AC47~63Hz  
 Working environment.....-20~60°C ; 0~95% rh (non-cond.)  
 Protection degree.....housing IP30 ; terminal IP10  
 Housing.....ABS(UL94V-0)

### CONNECTION DIAGRAM

