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**General Type temperature transmitter**  
**Model : T990 Series (Head mounting type)**

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**WISE®**

**Advantages**

- Two wire 4-20 mA current output signals
- RTD input
- Measuring ranges -50 ~ 400 °C
- Fixed Range (Factory set)
- Excellent accuracy and long term stability
- Low - cost

**Applications**

These are recommended in applications requiring amplification of RTD signals to carry to a long distance or guard against heavy field electrical noise. The transmitter converts RTD inputs to an analog signal for direct interface with indicators, recorders, controllers, PLC, DCS systems can be used for a wide range of applications in process control, automatic machinery and hydraulic or pneumatic system design.



T990

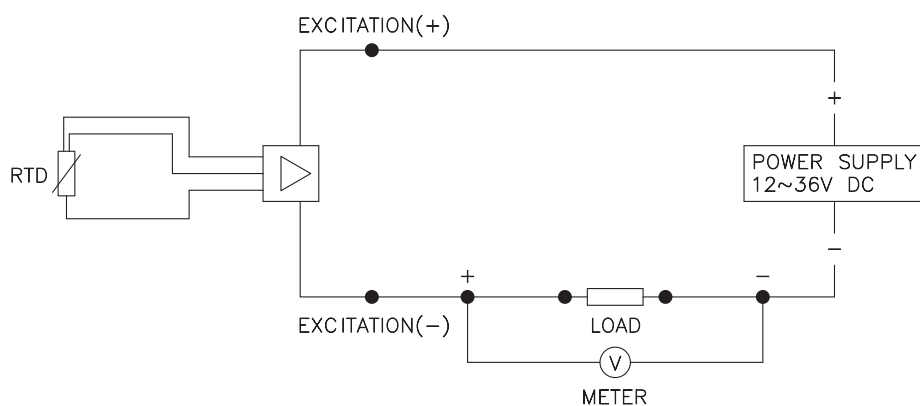
**Descriptions**

T990 series temperature transmitters are designed to fit into standard molded terminal heads used on RTD assemblies to provide a 4~20 mA transmission signal. It is a cost effective solution for all temperature measurement and accurate, durable and reliable. Numerous configurations for measurement in many different mediums are offered. Generally the transmitter produces a linear 4~20 mA output carried on a two-wire system. The transmitter is supplied factory calibrated, but also has zero and span potentiometers for field adjustment or calibration.

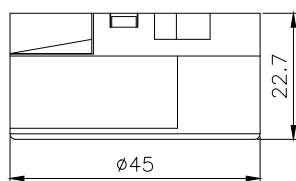
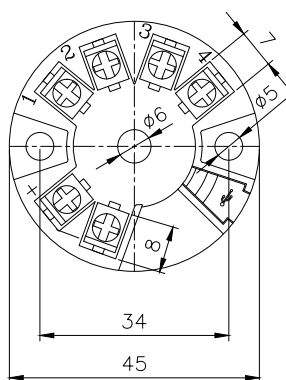
## Specification

Input		
Measuring range		Pt100 ohm, JIS-C-1604-1981
Output		
		Current output
Electrical connection type		2-wire technique
Full scale output signal		20 mA $\pm$ 0.2%
Zero measured output		4 mA $\pm$ 0.03%
		Other output signals available on request
Electrical Specification		
Excitation voltage		18~30 V DC
Load resistance max@24 V		500 $\Omega$ at 24 V
Influence of excitation		0.01% FSO/V
Burnout		Upscale(approx. 23 mA DC) or downscale(approx. 4 mA DC)
Reverse polarity		Protected
Shock resistance		No change in performance after 10 Gs for 11 ms
Vibration		5 g (10 ~ 2000 Hz)
Response time(10 ~ 90%)		$\pm$ 0.5 seconds
Adjustment range		$\pm$ 15% FSO/zero and span
Performance Specification		
Accuracy		$\pm$ 0.2% FSO
Non-Linearity		Better than 0.10% FSO
Repeatability		Better than 0.05% FSO
Long term stability		Better Than 0.05% FSO per month
Cutoff frequency(-3 d B)		$\pm$ 2 kHz
Ambient temperature limits		-20~70°C
Ambient humidity limits		5 to 100% R.H
Physical Specification		
Material	Case	ABS resin
	Cover	ABS resin
Dimension		45(W) x 22.7(H) mm
Mounting		2 x M3 screw
Weight		100 g max

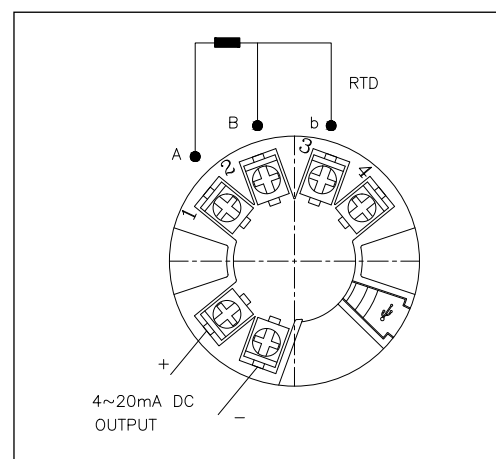
## System connection for 2-wire transmitter



## Dimension(mm)



## Electrical connection



## Ordering Information

### Head Mounting Type Temperature Transmitter

T990			General temperature transmitter
	JP		JIS standard (JPt 100 ohm)
	PT		DIN standard (Pt 100 ohm)
		10	0 ~ 100°C
		15	0 ~ 150°C
		20	0 ~ 200°C
		30	0 ~ 300°C
		50	None standard range

T990	JP	10	0	0	0	0	0	0	0	Sample ordering code
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Specifications subject to change without notice