# **General Type Temperature Transmitter Model : T990 (Head mounting type)**



#### **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 analong singal 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.

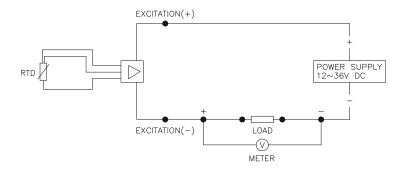
#### **Descriptions**

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 defferent 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**

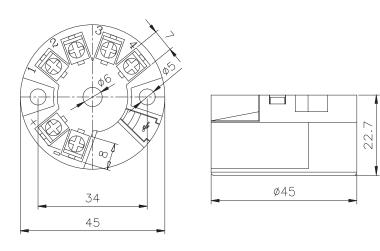
Input							
Measuring range		Pt100 ohm, JIS-C-1604-1981					
Output							
		Current output					
Electrical connection type	)	2-wire technique					
Full scale output signal		20mA ± 0.2%					
Zero measured output		4mA ± 0.03%					
		Other output signals available on request					
Electrical Specification							
Excitation voltage		18~30 V DC					
Load resistance max @ 2	24V	500Ω at 24V					
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 10Gs for 11ms					
Vibration		5g (10~2000 Hz)					
Response time(10~90%)		≤ 0.5 seconds					
Adjustment range		± 15% FSO / zero and span					
Performance Specification	n						
Accuracy		≤± 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)		± 2 kHz					
Ambient temperature range		-20~70 °C					
Ambient humidity limits		5 to 100% R.H					
Physical Specification							
Material	Case	ABS resin					
atoriai	Cover	ABS resin					
Dimension		45(W) x 22.7(H) mm					
Mounting		2 x M3 screw					
Weight		100g max.					

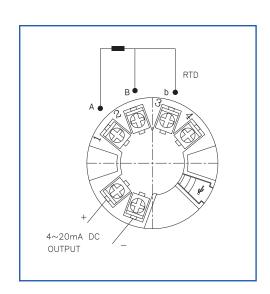
## **System connection for 2-wire transmitter**



## Dimension (mm)

#### **Electrical connection**





## **Ordering Information**

## Head mounting type General temperature transmitter

1. Base model

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T990							General temperature transmitter			
	2. Input signal									
	JP						JIS standard (JPt 100 ohm)			
	PT						DIN standard (Pt 100 ohm)			
3. Measuring range										
		10					0~100°C			
		15					0~150°C			
		20					0~200°C			
		30					0~300°C			
		50					None standard range			
	·									
T990	PT	10					Sample ordering code			

Specifications subject to change without notice