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



Advantages

- Two wire 4-20 mA current output signals
- RTD input (T990)
- Multi input (T900)
- Excellent accuracy and long term stability
- Low cost



Т990 / Т900

Applications

These are recommended in applications requiring amplification of signals to carry to a long distance or guard against heavy field electrical noise. The transmitter converts 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.

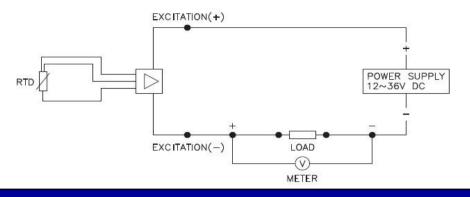
Descriptions

T9x0 series temperature transmitters are designed to fit into standard molded terminal heads used on RTD & multi input 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

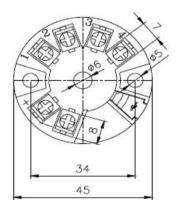
Input	
Measuring range	Pt100 ohm, JIS-C-1604-1981
	Thermocouple Type "B", 100 ~ 1820°C (Only T900)
	Thermocouple Type "E", -200 ~ 1000°C (Only T900)
	Thermocouple Type "J" $-200 \approx 1200^{\circ}C$ (Only T900)
	Thermocouple Type "J" , -200 ~ 1200°C (Only T900) Thermocouple Type "K" , -200 ~ 1370°C (Only T900)
	Thermocouple Type "N" , -200 ~ 1300°C (Only T900)
	Thermocouple Type "R", 0 ~ 1760°C (Only T900)
	Thermocouple Type "S", 0 ~ 1760°C (Only T900)
	Thermocouple Type "T" , -200 ~ 400°C (Only T900)
	mV DC , 0 ~ 999mV (Only T900)
	V DC , 0 ~ 10V (Only T900)
	mA DC , 0 ~ 30mA (Only T900)
	Dedicated loader allows you to change input types and scope of use. (Only T900)
Output	
output	Current output
Electrical connection type	2-wire technique
Full scale output signal	20 mA ±0.2%
Zero measured output	4 mA ±0.03%
	Other output signals available on request
Electrical Specification	
Excitation voltage	18~30 V DC
Load resistance max @ 24V	500 Ω 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	5 g (10 ~ 2000 Hz)
Response time(10~90%)	≤ 0.5 seconds
Adjustment range	± 15% FSO/zero and span
Performance Specification	
Accuracy	$\leq \pm 0.2\%$ 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)	±2 kHz
Ambient temperature range	-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
weight	100 y 11ax

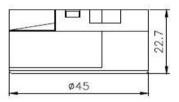
System connection for 2-wire transmitter

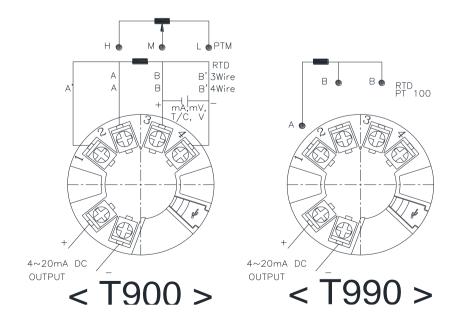


Dimension (mm)

Electrical connection







Ordering Information		
Head Mounting Type Temperature 1. Base model	Transmitter	
T990	General temperature transmitter	
	Multi input transmitter	
2. Input signal	UC standard (IDt 100 skm)	
JP	JIS standard (JPt 100 ohm)	
PT	DIN standard (Pt 100 ohm)	
TB	Thermocouple Type B (Only available T900)	
TE	Thermocouple Type E (Only available T900)	
TJ	Thermocouple Type J (Only available T900)	
	Thermocouple Type K (Only available T900)	
	Thermocouple Type N (Only available T900)	
TR	Thermocouple Type R (Only available T900)	
TS	Thermocouple Type S (Only available T900)	
	Thermocouple Type T (Only available T900)	
MV	mV DC (Only available T900)	
VV	V DC (Only available T900)	
	mA DC (Only available T900)	
3. Measuring range		
10	0~100 °C	
15	0 ~ 150 ℃ 0 ~ 200 ℃	
20		
30	0 ~ 300 ℃	
50	None standard range	
T990 PT 10	Sample ordering code	
	Specifications subject to change without notice	

Specifications subject to change without notice