Temperature Transmitter Model : T156



Advantages

- Two wire 4 ~ 20mA Loop powered design
- Resistance Temperature Detector
- Measuring ranges from -50°C to 400°C
- Electrical connection DIN connector
- · Excellent accuracy and long term stability

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 input 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.

- · Industrial temperature measurement
- · Power transmission engineering, hydraulics
- Machine building, plant and tank construction



T156

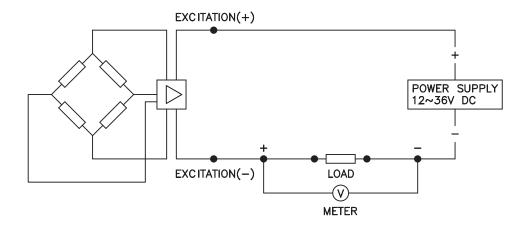
Descriptions

T156 series temperature transmitters are designed to fit into standard DIN connectors and used on RTD assemblies to provide a 4~20mA 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 4~20mA output carried on a two-wire system and optional voltage range of 1~5V DC can also be available. The transmitter is supplied factory calibrated, but also has zero and span potentiometers for field adjustment or calibration.

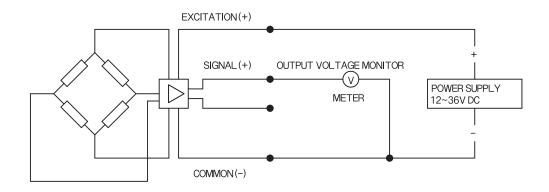
Specification

Input						
Measuring range	PT100 ohm					
	JPT100 ohm					
Output						
	Current output		Voltage output			
Electrical connection type	2-wire technique		3 or 4-wire technique			
Full scale output signal	20mA	±0.2%	5V	±0.2%		
Zero measured output	4mA	±0.03%	1V	±0.03%		
	Other output signal available on request					
Electrical Specification						
Excitation voltage	12~36V DC					
Load resistance max@24V	500 <i>Q</i> at 24V					
Influence of excitation	0.01% FSO/V					
Burnout	Upscale(approx.	23mA DC) or downs	scale(approx. 4m	A DC)		
Reverse polarity	Protected					
Shock resistance	No change in pe	rformance after 10Gs	s for 11ms			
Vibration	5g (10~2000Hz)					
Adjustment range	±20% FSO/zero	and span				
Response time(10~90%)	±2 milliseconds					
Performance Specification						
Accuracy	±0.25% FSO					
Non-Linearity	Better Than 0.10	% FSO				
Repeatability	Better Than 0.05	% FSO				
Long term stability		% FSO per month				
Cutoff frequency(-3 d B)	±2KHz					
Ambient temperature limits	-20~85°C					
Ambient operating humidity	5~100% RH					
Physical Specification	,					
Process connection	PT, NPT male th					
		ns available on reque				
Process media	<u> </u>	ls compatible with sta				
Materials wetted by process	Stainless steel 3	16 and others availal	ble on request			
Enclosure rating	IP65					
Influence of mounting position	Not critical					
Option	Protection well					
Note						

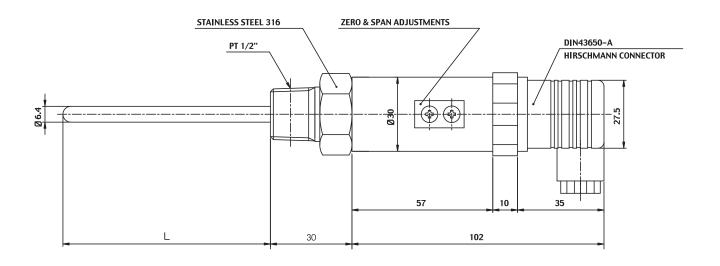
System connection for 2-wire transmitter



System connection for 3-wire transmitter



Dimension(mm)



* L : Sheath Length(mm)

Ordering Information

Temperature Transmitter

111P	Jiu	<u> </u>						1		DIN 6 .		
156										DIN Connector		
	PT									Input signal RTD	PT 100 <i>Q</i>	
	JP									Process connection	JPT 100 <i>♀</i>	
		N									NPT thread	
		Р									PT thread	
		G									G thread	
		Х									Non thread	
			1							Thread size	1/4″	
			2								3/8″	
			3								1/2″	
				N						None	•	
				С						Compression fitting		
				S						With protection thermo-well		
					1					Sheath length	25mm	
					2					-	50mm	
					3						75mm	
					4						100m m	
					5						160mm	
					6						200m m	
					7						250m m	
					8						300m m	
					9						400m m	
					Х					Other length available on reque		
				l		01				Measuring range	-50~0°C	
						02					-50~50°C	
						03					-20~80°C	
						04					-50~150°C	
						05					0~100°C	
						06					0~200°C	
						07					0~300°C	
						08					0~400°C	
						XX				Other calibration ranges availal		
							С			Calibration in Celsius scale°C		
							F			Calibration in Fahrenheit scale	F	
								A1		4~20mA, DC, 2-wire output	•	
								A2		4~20mA, DC, 4-wire output		
B1 1~5V, DC, 3-wire output												
B2 0~5V, DC, 3-wire output												
B3 0~10V, DC, 3-wire output												
								دم		Non-option		
									N	· · · · · · · · · · · · · · · · · · ·		
									W	Weather protection rating IP67		
56	РТ	G	3	S	2	05	С	Α1	N	Sample ordering code		
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