

UTB3 General Temperature Transmitter

Description

UTB3 general temperature transmitter uses Pt100 thermal resistor as sensing element. The thermal resistor transforms the measured temperature into electrical signal, after this signal is processed, it will be amplified to 4~20mA or other standard simulated signals on industry scene. UTB3 is made with integrated construction for the direct measurement of various of liquid, gas and solid's surface temperature in the range of -200°C~500°C. UTB3 is featured with good performance and stability. It is sealed with epoxy resin, this construction makes UTB3 have good ability on anti-shock and withstand high temperature, also have high mechanical strength, is suitable for the application in bad working condition.

UTB3 has widely been used for temperature meansurement in such industries as petroleum industry, chemical industry, spinning and weaving, mine, medicine, electric power, environmental protection, municipal administration, food industry as well as scientific research and so on.



UTB3-a Water-proof Connector(PG7)

UTB3-b

Features

- Use Pt100 or other thermal resistors as sensing element.
- High accuracy, low power consumption, wide operating ambient temperature range
- Integrated construction, easy installation
- Use full metal sealed construction, coordinate high temperature radiation trough

Electrical connection



wiring drawing of two-wire 4~20mA output (hirschmann)

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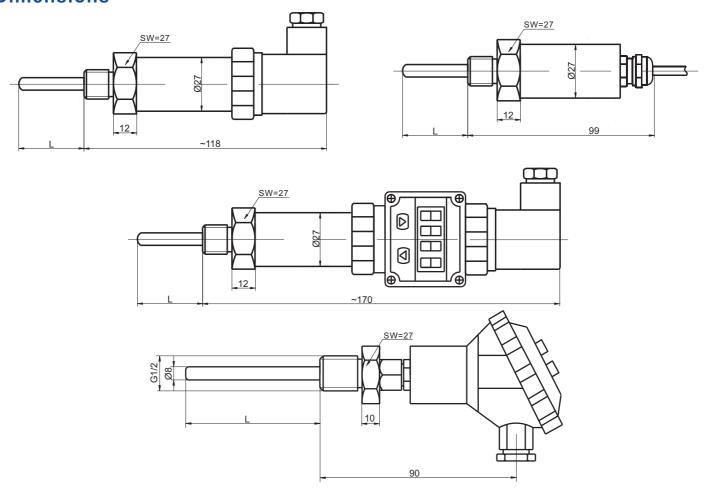


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Specifications

temperature measurement element	Pt100 or other thermal resistors			
measured medium	gas or liquid compatible to stainless steel			
measured medium's temperature	-200℃ ~+500℃			
insert depth	20~500mm can be made upon customer's request			
output signal	4~20mA(0~5V,1~5V option)			
accuracy	0.5%FS(standard)			
circuit working temperature range	-30℃~80℃			
storage temperature range	-40℃~100℃			
temperature limit	120% of measured range			
power supply	10~30VDC(15~30VDC for products with indicator)			
long term stability	0.15%FS/year			
load resistance	>500Ω(24V supply)			
circuit temperature shift	<±0.2%FS/10℃			
response time	<1ms			
process connection	G1/4 or others			
electrical connection	hirchsmann connector			
material of housing	stainless steel			

Dimensions





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Ordering code

UTB3-a						
UTB3-b						
	range measuring range: -200°C~+500°C					
	(X1~X2)℃ X1-lower limit of measured temperature, X2-higher limit of measured temper					
		code	output			
		01	4~20mA			
		02	0~5V			
		О3	1~5V			
			code	process cor	nnection	
			P1	G1/4		
			P5	1/2NPT		
			P6	M12×1.5		
			Pz	customer re	i de la companya del companya de la companya de la companya del companya de la co	
				code	electrical connection and display (UTB3-a)	
				E1	hirschmann(DIN) connector	
				E2	PG7 connector	
				Ez	customer request	
				D0	no display	
				D1	4 digit LCD digital indicator	
				D2	4 digit LED digital indicator	
					length insert length	
					L 20mm~500mm	
UTB3-a	(0~100)℃	01	P1	E1D0	50mm	

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