UTB8 Integrated Temperature Transmitter

Description

UTB8 integrated temperature transmitter uses thermocouple or thermal resistor as temperature sensitive element, it can measure temperature of all kinds of liquid, steam and gas medium from -200 to 1800℃, and transform thermocouple's or thermal resistance's signal to 4~20mA standard signal, simultaneously has real-time indication function on the spot.

UTB8 integrated temperature transmitter has firm & artistic housing, two-layer construction, 3-1/2 LCD or LED display, 0-100% indicator optional. UTB8 uses integrated electric circuit,which guarantees its stable signal and clear display. This is very convenient for calibration and inspection of the gauges on the scene. UTB8 has general type and explosive-proof type.

UTB8 has been widely used in chemical industry, petroleum industry, metallurgy industry, lighting industry, food, electric power, and energy management etc.

Features

- Range:-200℃~1800℃
- Integrated structure,can display its real-time measured value
- High accuracy, anti-interference, good long-term stability
- Signal is precise, can remotely transmit (max. 1000 meters)

Specifications

measuring	gas or liquids compatible stainless steel
temperature ranges	thermocouple： E、K、 S、B thermal resistor： PT100,Cu50
insert depth	50mm~2000mm(as customer's request)
accuracy	thermoresistor：0.25%FS, 0.5%FS(standard); thermocouple: 0.75%FS
output signal	4~20mA
long-term stability	<0.25%FS/year
supply voltage	24V±10% DC
load resistance	RL（max.）=(V-12)/0.02, V:power supply of transmitter
insulation resistance	100MΩ@50VDC
operating temperature range	-20~+60℃
display	LCD digital indicator in ℃ unit, -1999~1999
temperature coefficient of zero	0.2%FS/10℃
temperature coefficient of span	0.2%FS/10℃
process connection	M27×2 (male)or others
electrical connection	1/2NPT or M20×1.5（female）
material of wet part	1Cr18Ni9Ti stainless steel
material of housing	cast aluminium
explosive-proof	Exia II BT6,Exd II BT6
protection	IP65

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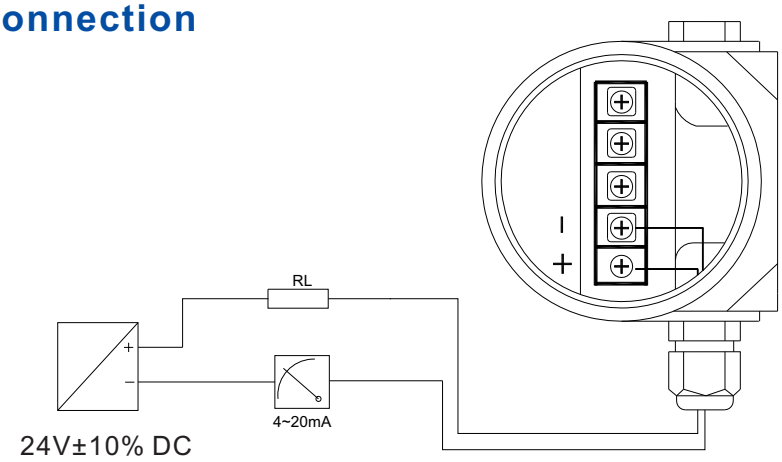
Electrical connection



Ordering code

UTB8						
code	measuring range					
E	“E” type thermocouple: 0~750℃					
K	“K” type thermocouple: 0~1200℃					
S	“S” type thermocouple: 0~1300℃					
C	Cu50 thermal resistor: 0~1600℃					
P	Pt100 thermal resistor: -200~500℃					
Z	custom request					
	code	diameter of protective pipe				
	L1	10mm				
	L2	12mm				
	L3	custom request				
		code	process connection			
		0	fixed thread（G1/2）			
		1	movable thread（M27×2）			
		2	fixed flange			
		3	movable flange			
		Z	customer request			
			code	other functions		
			D0	without display		
			D1	LCD display		
			D2	LED display		
			D3	0~100% indicator		
			E0	no explosive-proof		
			E1	Exd II BT6		
			E2	Exia II BT6		
					insert depth L(mm)	
UTB8	P	0~200℃	L1	1	D1E0	80

note: please indiate if you have any special request when ordering.