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 guarantee its stable signal and clear display, this is very convenient to calibrate and inspect 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, light industry, food, electric power, and energy management etc.

Features

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

Specifications

measuring	gas or liquids compatible to 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 wetted part	1Cr18Ni9Ti stainless steel
material of housing	cast alaluminium
explosive-proof	Exia II BT6,Exd II BT6
protection	IP65

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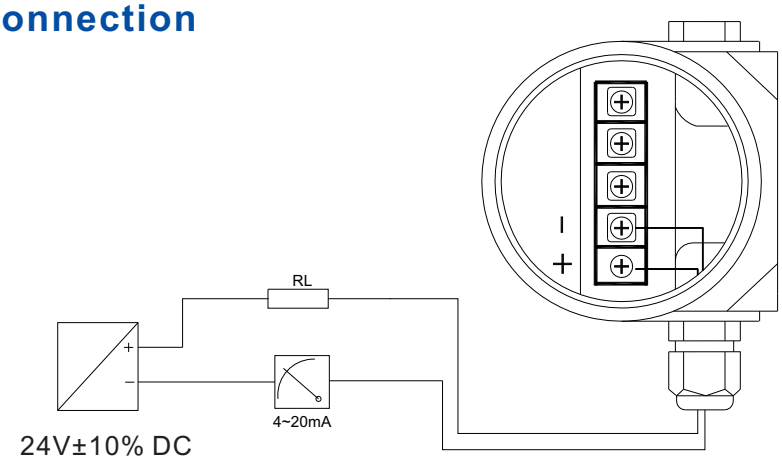
Electrical connection



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.

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