

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°C, 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

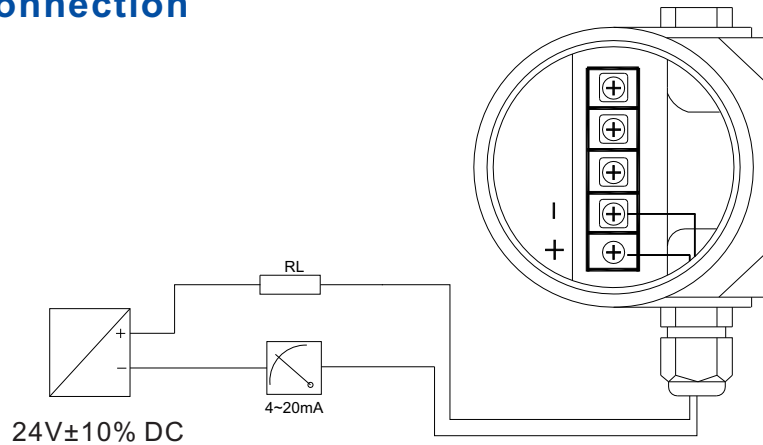
- Range:-200°C~1800°C
- Integrated structure can display its real-time measured value
- High accuracy, anti-interference, good long-term stability
- Signal is precise, can remotely transmit (max. 1000 meters)

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°C |
| display | LCD digital indicator in °C unit, -1999~1999 |
| temperature coefficient of zero | 0.2%FS/10°C |
| temperature coefficient of span | 0.2%FS/10°C |
| 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 |

UTB8 Integrated Temperature Transmitter

Electrical connection



Ordering code

| UTB8 | | | | | | | |
|------|------|------------------------------------|-----------------------------|---|------|----|--|
| | code | measuring range | | | | | |
| | E | "E" type thermocouple: 0~750°C | | | | | |
| | K | "K" type thermocouple: 0~1200°C | | | | | |
| | S | "S" type thermocouple: 0~1300°C | | | | | |
| | C | Cu50 thermal resistor: 0~1600°C | | | | | |
| | P | Pt100 thermal resistor: -200~500°C | | | | | |
| | 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°C | L1 | 1 | D1E0 | 80 | |

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