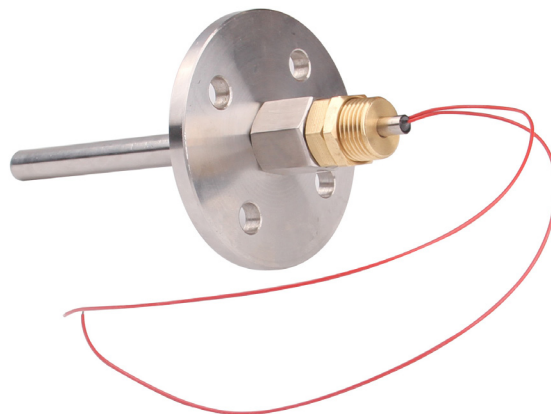


Description

The Boiler stack temperature sensor and well is designed to monitor the temperature of boiler stacks, steam lines, and other applications where the temperature may rise above the operating range of standard sensors. The Platinum thermistor sensor embedded in a stainless steel housing allows for protection against water ingress that cause traditional temperature sensors to fail. When it's used with the RTD2 Transmitter, a 1~5V output is created to measure the temperature. To adjust the RTD2, set the DIP switches to match the desired range and use the zero to fine tune. Digital ohmmeter are required.



BTS-12

Highlights

- All stainless steel probe;
- High temperature span, -200 °C ~300 °C;
- Brief response time;
- Low self-heating rate;
- Long-Term Stability;
- Resistant against vibration and temperature shocks.



RTD2

Specifications

PT1000

Operating Temperature Range	-200 °C ~300 °C
Operating Pressure	3000 psig (20.7 mPa) max
Accuracy	Calibration accuracy $\pm 0.05\%$ of span
B Value:	1000 Ω $\pm 1\%$
Temperature Coefficient	TCR = 3850 ppm/K
Sensor Type	1K Platinum thermistor
Sensor Leads	Two-wire nickel coated stranded copper
Extension	Wire connections
Probe Material	Stainless Steel 304
Well Material	Stainless Steel 304

RTD2

Power supply

Distribution voltage	24V ± 0.5 V
Distributing current	30mA

Performance Indicators(equivalent to full-scale)

Standard accuracy	±0.2% 25 °C
Temperature coefficient	±0.015% /°C
Response time	≤0.5s
Impact of changes in supply voltage	≤0.1%
Insulation resistance	
Between Input-output-Power	100MΩ above/DC500V
Between Input-output-Power-ground	DC1000V·one minute,AC1000·one minute
Effect of load resistance variation	±0.1% / 250Ω
Power on stable time	≤3s

Output parameters

Output current	
Output range	Load resistance
4~20mA	≤550Ω
0~10mA	≤500Ω

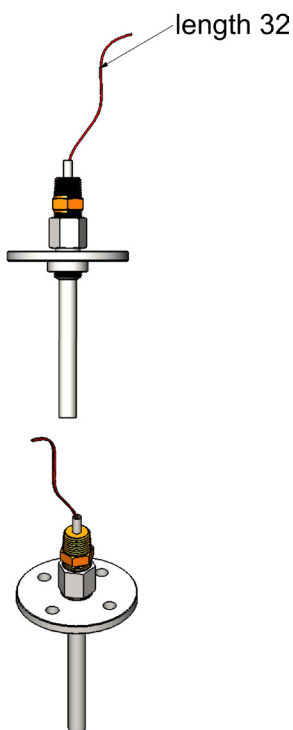
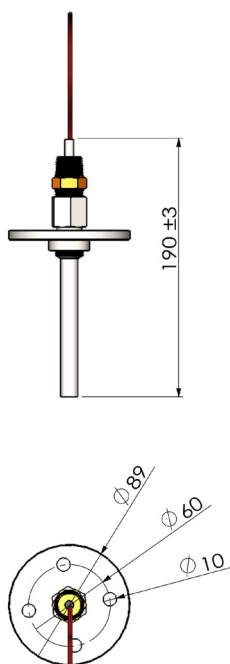
Environmental parameters

Power supply	24V.DC~28V.DC
Temperature range	-5~55°C
Humidity	0~90% RH(No condensation)
Installation	DIN35mmRail mounting
Dimension	105mm*45mm*25mm

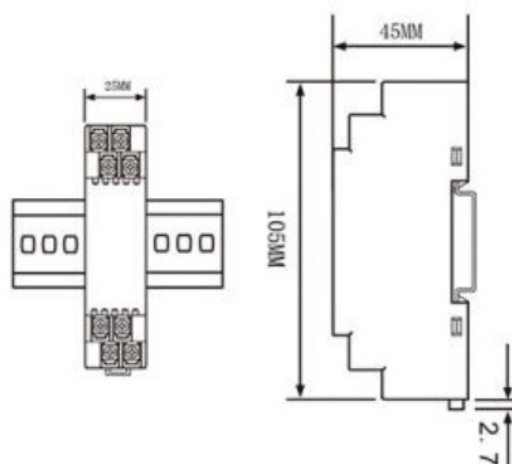
Dimension

BTS-12

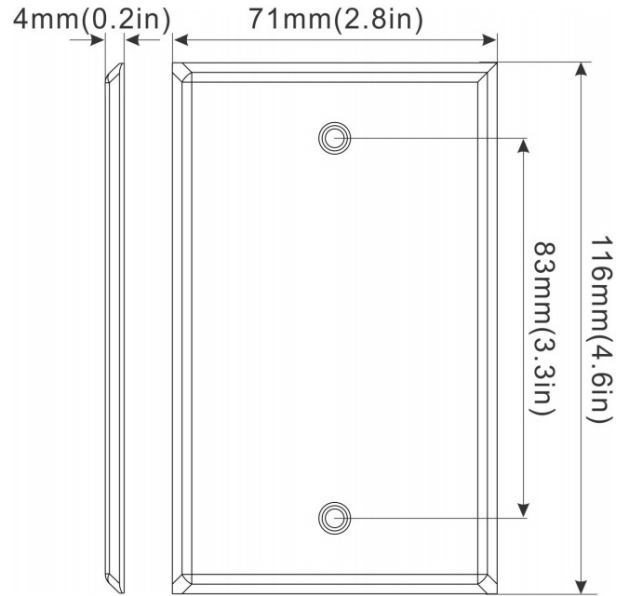
Unit:mm



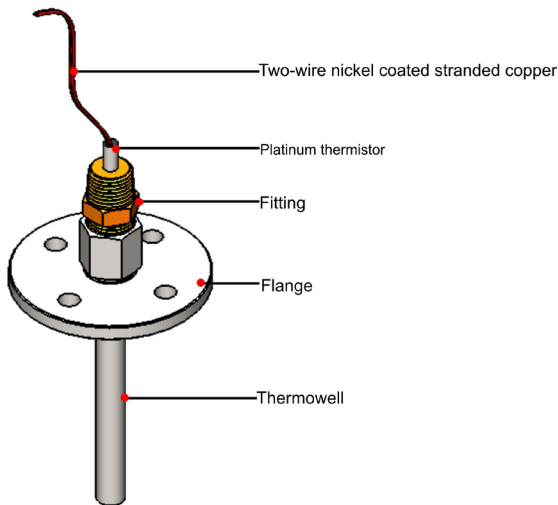
RTD2



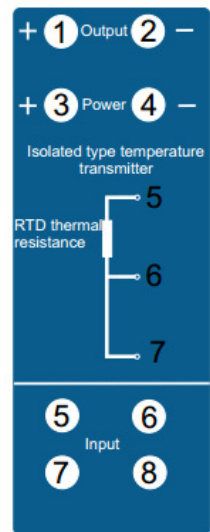
Metal outdoor electrical box



BTS-12 Structure Graphic



RTD2 Wiring Diagram



RTD2 Installation

Installed with DIN35mm standard rail

step1, clip the upper end of the meter to the guide rail

step2, push the lower end of the meter into the guide rail

