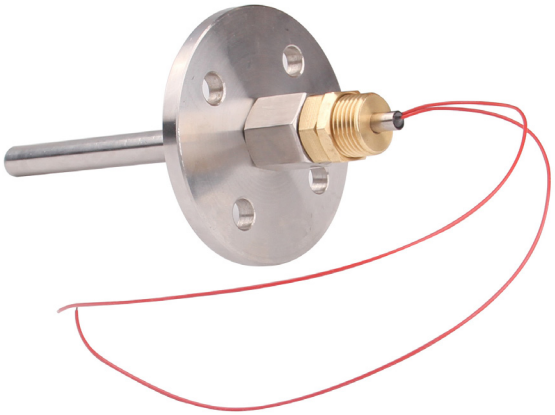
# BTS-12

## 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.



## 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 ±0.05% of span |
| B Value: | 1000Ω ±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 |
|---|---|
| Supply Voltage | 12~24VDC |
| Signal Output | 1~5V |
| Maximum Output Impedance | 675Ω@24VDC |
| Accuracy | 0.1°F |
| Operating Humidity | 0% to 95% non-condensing |

# BTS-12

## Part Number Scheme

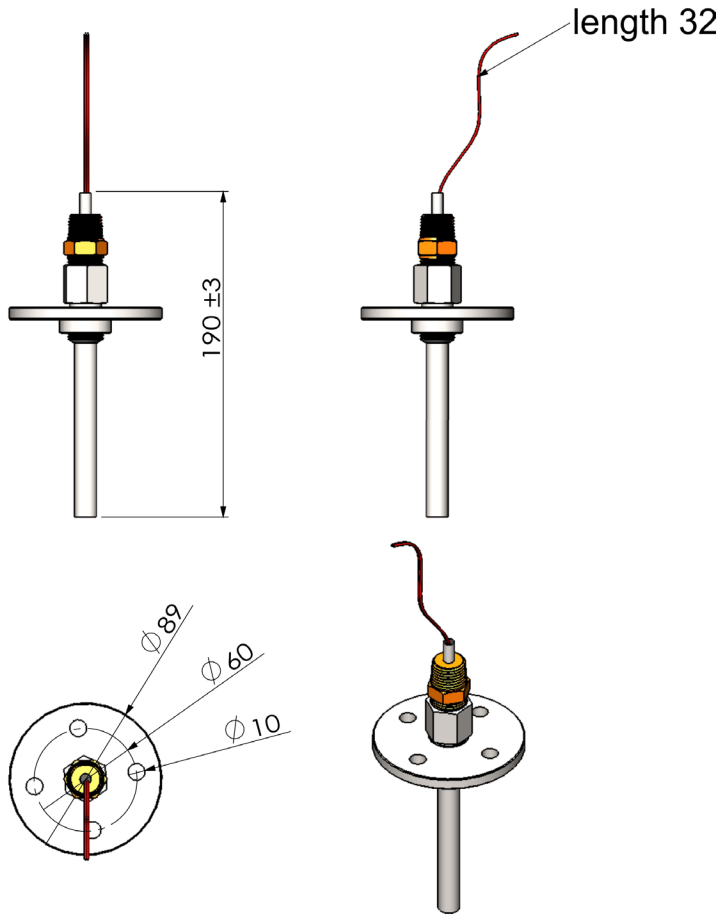
BTS-12

| Code | Description |
|---|---|
| BTS | Boiler stack temperature sensor and well |

| Code | Temperature Curve |
|---|---|
| 12 | 1K PT |

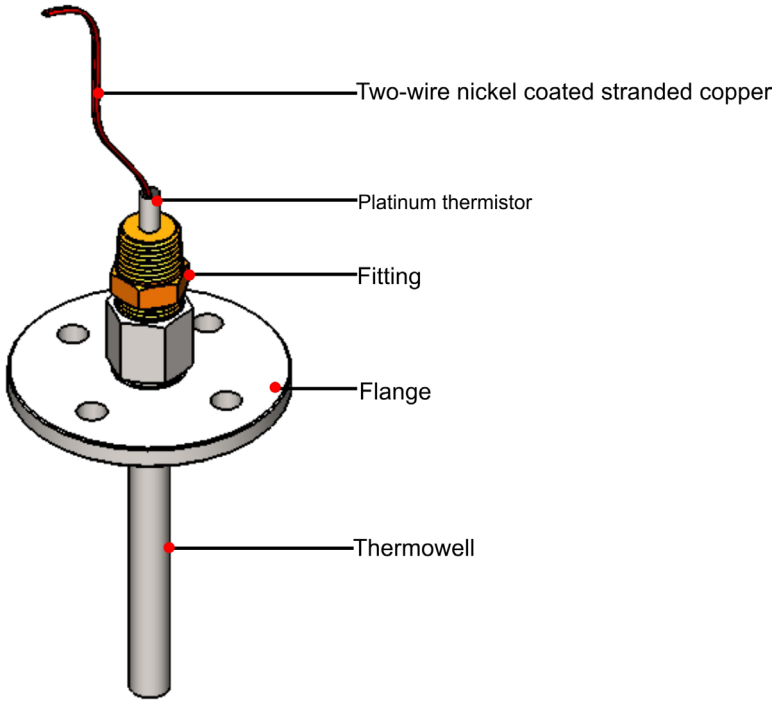
## Dimension

Unit:mm



# BTS-12

## Structure Graphic




### RTD2 Calibration to Zero-Point

The RTD2 transmitter can be field-calibrated by using the ZERO potentiometers. Use the step-by-step instructions below to calibrate to the Zero-Point.
Step 1 Assemble required equipment: temperature transmitter, 24 VDC power supply, RTD Volt-age vs Temperature Chart, digital VOM.
Step 2 Use a High-Precision PT100 to get 1 Volt on the VOM.