

Bimetal Thermometer

PEK371



Application Area

- General process instrumentation in the chemical and petrochemical industries, oil and gas industries, power generation and water/wastewater industries
- Temperature measurement in harsh and aggressive environments
- Suitable for applications with high vibrations

Special features

- Nominal sizes 100, 150 mm
- Dial for precise readings (minimize parallax reading errors)
- Customized dial printing
- Angle connection dial can be rotated 360°High measurement repeatability
- Robust, hermetically sealed case
- External reset for setting the reference temperature
- Silicone filled for reduction of pointer flutter on high vibration application and provides improved response times

Introduction

Bimetal thermometer is a temperature measuring instrument in which the differential thermal expansion of thin, dissimilar metals, bonded together into a narrow strip and coiled into the shape of a helix or spiral, is used to actuate a pointer.

In addition to the standard ranges and configurations, custom units can be manufactured to meet most requirements. A full range of screwed and flanged Thermowells are available in a wide choice of materials and configurations.

Specification

| | |
|-----------------------|--|
| Size | 100mm (4") and 150 mm (6") |
| Stem Diameter | 6mm, 8mm, 10mm |
| Stem Material | 316L Stainless Steel |
| Standard Stem Lengths | 100mm, 150mm, 225mm, 300mm, 400mm |
| Mounting | Direct mounting whereby the Any Angle Head can be rotated through 360° and angled 180° from axis |
| Process Connection | 1/2" NPT |
| Case Material | 304 Stainless Steel |
| Window | 3mm Glass |
| Dial | White Aluminum with black markings |
| Pointer | Black Aluminum |
| Environmental Rating | IP65 |
| Scale | Single Scale Or °C or °F |
| Accuracy Class | CL:1.0 - 1.0% of FSD, CL:1.5 - 1.5% of FSD |

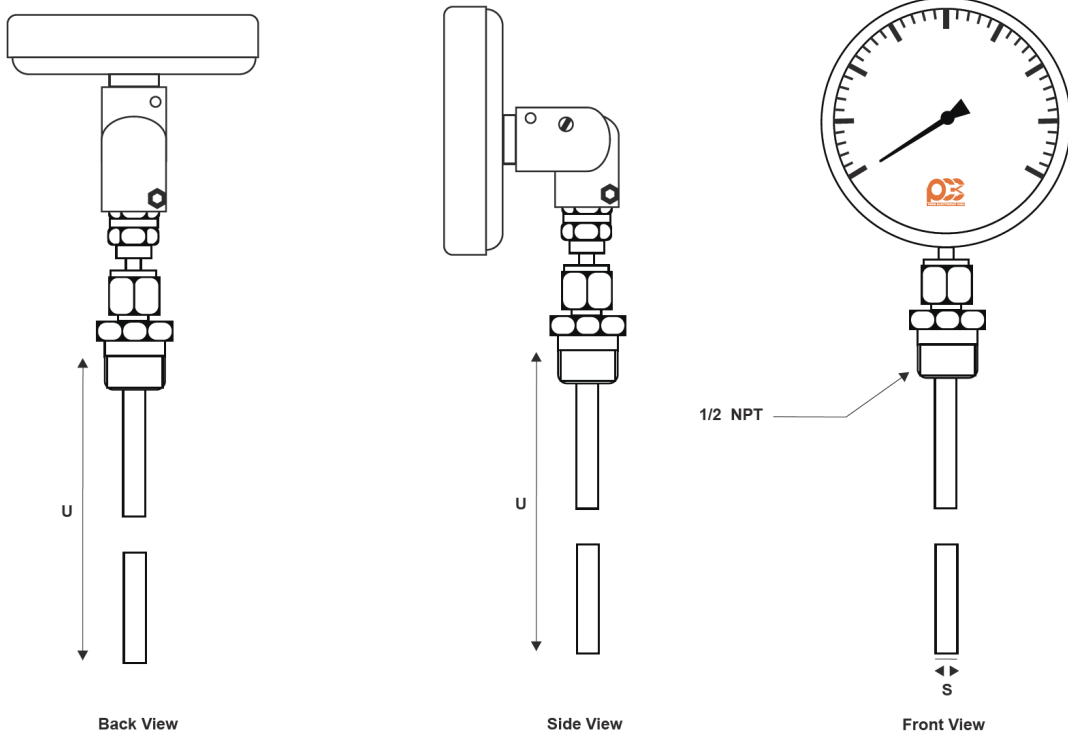
Standard Temperature Ranges

-40/+60, 0/100, 0/150, 0/200, 0/300, 0/400

Other ranges including higher temperatures ranges available on request.

Dimensions

Temperature Gauge



Note1: Dimensions are in mm

Note2: STEM Length (U) and Diameter (S) specify by customer

Ordering information

For ordering please fill following table :

| CODE | Nominal Diameter (mm) | Material | | Filling fluid | Thread size | Temperature range | Mechanical Protection | Ambient Temperature | Remark |
|------|-----------------------|---------------|-----------------|---------------|-------------|-------------------|-----------------------|---------------------|--------|
| | | Case Material | Wetted Material | | | | | | |
| | | | | | | | | | - |

For Example:

| CODE | Nominal Diameter (mm) | Material | | Filling fluid | Thread size | Temperature range | Mechanical Protection | Ambient Temperature | Remark |
|--------|-----------------------|---------------|-----------------|---------------|-------------|-------------------|-----------------------|---------------------|--------|
| | | Case Material | Wetted Material | | | | | | |
| PEK371 | 100 | SS304 | SS316 | NO | 1/2 NPT | 0-100 °C | IP65 | 25°C | - |