

BIMETAL THERMOMETERS



Considerations when selecting bimetal thermometers

A thermometer is an instrument manufactured to measure and display the temperature of a specific application or process medium. A bimetal thermometer uses a bimetallic sensing element, which reacts measurably and consistently with temperature change.

The sensing element is made of two different metals welded together in the form of a coil and enclosed in a stainless steel stem. The coil is connected to a dial pointer on the instrument face. When the stem is exposed to temperature change, the coil expands or contracts and the pointer moves accordingly, providing a temperature reading. While the American standard unit for measuring temperature is degrees Fahrenheit, PIC Gauges thermometers typically display both Fahrenheit and Celsius scales.



DIAL	PIC Gauges offers a variety of dial sizes including 1", 2", 3" and 5" diameters. For 2" through 5" sizes, dials come with anti-parallax design, providing improved readability.
CONNECTION SIZE	Typical connection sizes include 1/4" NPT and 1/2" NPT. Custom connection sizes are available upon request. Lead times may apply.
CONNECTION LOCATION	Fixed mount and adjustable angle connections are available from stock. Straight (lower mount) connections are also available upon request.
CASE CONSTRUCTION	Constructed of 300 series stainless steel, PIC Gauges thermometers feature a hermetic seal, which prevents both damage to internal parts caused by moisture as well as lens fogging.
ACCURACY	PIC Gauges thermometers are manufactured to ASME B40.1 Grade A standards and, as such, offer 1% full scale accuracy.
TEMPERATURE RANGE	Standard ranges have been selected to include all normal temperature measurement requirements.
THERMOWELLS	Thermowells are recommended for all applications.

NOTE: The above information is for reference only and is not a comprehensive guide. Please contact your PIC Gauges representative with any questions.