



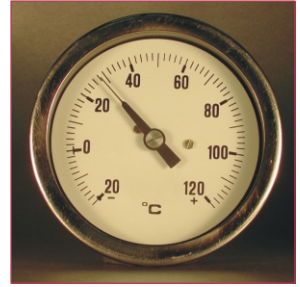
ACCURACY

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Error is the difference between the value indicated by the instrument and the true value measured by the sensor.

Accuracy classes are defined within manufacturers' standards as the maximum permissible indication error expressed as a percentage of the total span. Defined classes for thermometers are 1.0, 1.6 and 2.0.

However, should the thermometer head be liquid-filled with glycerine or silicone oil, the accuracy will drop at least one class



NOMINAL SIZES

The nominal sizes of standard thermometers are 63, 80, 100, 125 and 160 mm. All temperature gauge dials are produced in accordance with the relevant manufacturer standards.

STEM LENGTHS AND DIAMETERS

PCi thermometers can be fitted with stem diameters of .25" (6mm), .375" (10mm) and .5" (12mm). Thicker stems are more robust but less responsive and selection should be made with these considerations in mind.

Standard stem lengths range from 2" (50mm) to 18" (450mm) depending on the demands of your process context.



HYGIENIC CONNECTIONS

For use in food processing and pharmaceutical plants, PCi gas-filled thermometers can be fitted with a full range of hygienic fittings.

To make your selection of a hygienic fitting appropriate for your plant see the Thermoconnection section.



Temperature Conversion Table

From \ To	Celsius	Kelvin	Fahrenheit	Réaumur
Celsius		$K = ^\circ C + 273.15$	$^\circ F = 9/5 ^\circ C + 32$	$^\circ R\acute{e} = 4/5 ^\circ C$
Kelvin	$^\circ C = K - 273.15$		$^\circ F = 9/5 K - 459.67$	$^\circ R\acute{e} = 4/5 K - 218.52$
Fahrenheit	$^\circ C = 5/9 (^\circ F - 32)$	$K = 5/9 (^\circ F + 459.67)$		$^\circ R\acute{e} = 4/9 (^\circ F - 32)$
Réaumur	$^\circ C = 5/4 ^\circ R\acute{e}$	$K = 5/4 ^\circ R\acute{e} + 273.15$	$^\circ F = 9/4 ^\circ R\acute{e} + 3$	