

LIQUID OR GAS EXPANSION THERMOMETER

A robust and reliable measurement

OPERATING PRINCIPLE

The measuring element is composed of a tube connected to a reservoir located in the probe. The assembly is filled with liquid or gas and sealed. Temperature variation causes a variation in the fluid volume which drives the pointer on a display.

GENERAL DATA⁽¹⁾

- Standard: EN 13190
- Capillary remote measurement or direct measurement
- Measuring element: rigid bulb
- With or without thermowell



BIMETAL THERMOMETER

A simple and functional measure

OPERATING PRINCIPLE

The helically shaped measuring element is composed of two alloys with different thermal coefficients. Temperature variation causes a deformation of the spiral which drives the pointer on a dial.

GENERAL DATA⁽¹⁾

- Standard: EN 13190
- Measuring element: bimetallic element
- With or without thermowell



TECHNICAL CHARACTERISTICS⁽¹⁾

	Expansion thermometer	Bimetal thermometer
Measuring scale	From -200 °C to +700 °C	From -70 °C to +600 °C
Dial diameter	100 mm - 150 mm	100 mm - 150 mm
Case	Stainless steel	Stainless steel
Stem	Stainless steel	Stainless steel
Stem diameter	Up to 12 mm	Up to 12 mm
Stem useful length	Up to 300 mm	Up to 1000 mm
Capillary length	Up to 10 m	-
Connection designs	Screw-in	Screw-in
Protection rating	Up to IP66	Up to IP66
Accuracy	Class 1 or 2 according to EN 13190	Class 1 or 2 according to EN 13190

⁽¹⁾ Only standard data are exposed on this page. Other designs are available on request.