

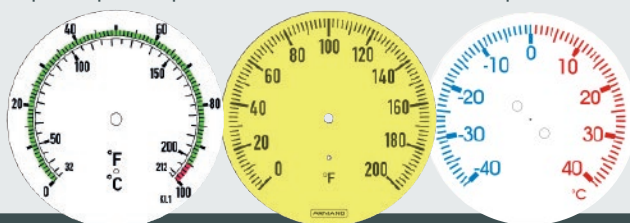
Mechanical Temperature Measurement

Bimetal thermometers TBi

Bimetal thermometers are self-sufficient measuring instruments, which function without auxiliary energy. All cases, temperature sensors and process connections are made of stainless steel. Due to the hermetically sealed construction type and the materials used, they are perfectly suited for corrosive media and saline environments. In addition, many models are available with liquid damping.

All standard models can be readjusted with an externally accessible adjusting mechanism. Individual dials with luminous colour, customer-specific markings and special prints optimise the instruments for their specific case of application.

We recommend combining bimetal thermometers with one of the thermowells from our large range, which are perfectly suitable for most applications.



Technical Data

Materials

case 304 (1.4301)
temperature sensor 316Ti (1.4571)

Degree of protection IP65 to IP67

Liquid damped versions

Indication accuracy

class 1 according to EN 13 190
optional: Grade A according to ASME B40.200

Case diameters/ nominal case sizes

2.5" (NCS 63), 3" (NCS 80),
4.5" (NCS 100), 5" (NCS 125),
6.5" (NCS 160)

Temperature ranges

from -50 °C / -60 °F
up to 460 °C / 850 °F

Smallest measuring span

60 °C / 110 °F,
e.g. -10 / +100 °F

Scales

in °C, °F,
dual scales, e.g. °C / °F
other units upon request

Installation lengths

from 2.5" (63 mm) up to 16" (406 mm)
optional: up to 35" (890 mm)

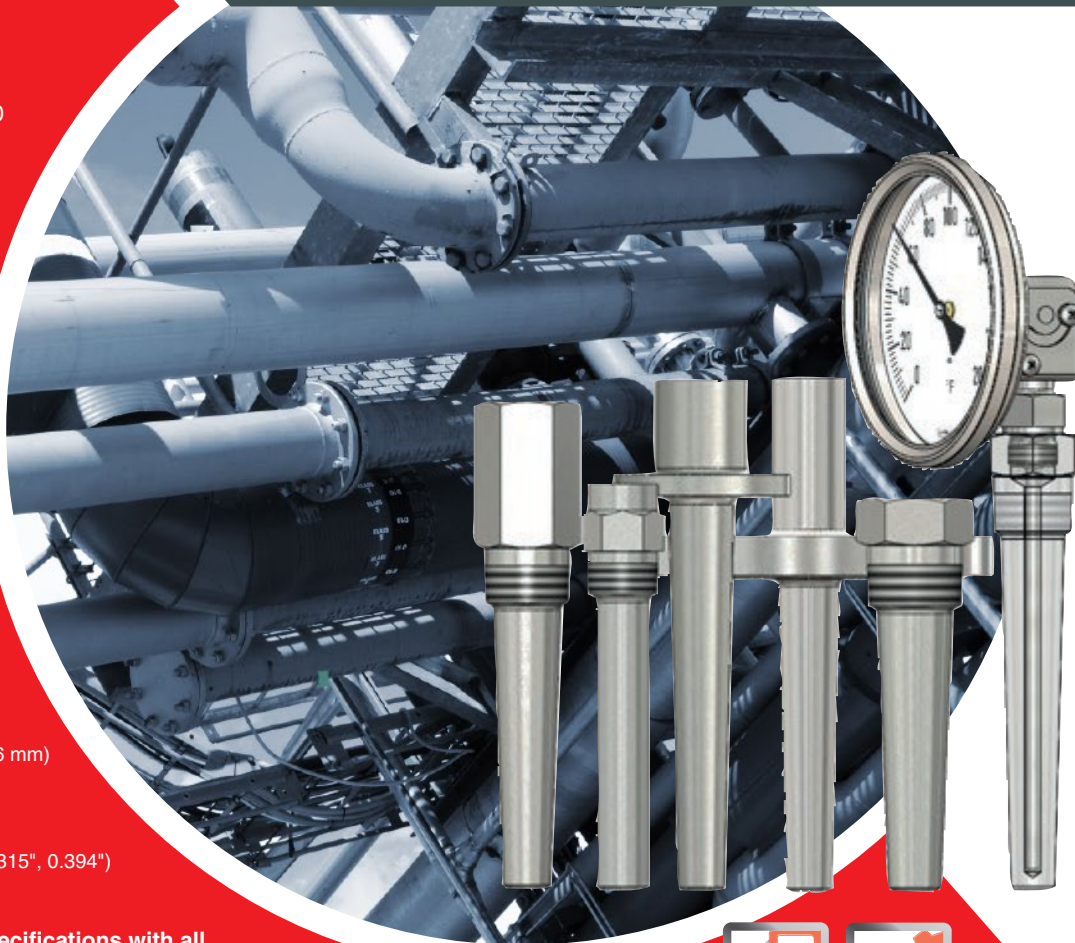
Stem diameters

6 mm, 8 mm, 10 mm (0.236", 0.315", 0.394")
optional: 6.35 mm (0.25")

Comprehensive technical specifications with all standard versions can be found in our data sheets.

thermowells make it complete

The safety and functionality of temperature measuring points is determined to a large extent by thermowells. They protect temperature measuring instruments against mechanical and chemical stress and enable the replacement of thermometers without interrupting the process.



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