

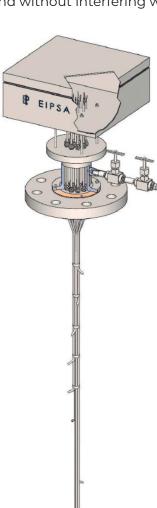
TEMPERATURE

Multiple unprotected temperature measurement sets

DESCRIPTION: There are special applications where the temperature is required to be measured at different points using only a process connection.

The new industrial processes, mainly in the chemical and petrochemical industries, make these designs more sophisticated requiring from sensor elements with very small diameters (micro thermocouples) or constructions with thermowell and specific bending radius to adapt to new reactor designs.

Designed for measurement both vertically and horizontally inside reactors and tanks, they adapt to the needs of the end user either by the need to reach specific measurement points, from an entry point and without interfering with the internals of the equipment where they are installed.



DENOMINATION

Internal temperature measurement element in reactors and tanks.

CARACTERÍSTICAS

- Rules of design:	IEC 60584, ANSI MC96.1 or DIN-43710, ASTM E230, ASTM E235, IEC 60751, ASTM E780, ASTM E1137
- Materials:	Austenitic materials and special alloys.
- Sizes of manufacturing:	According to specification or application.

APPLICATIONS

- Temperature measurement in tanks and reactors.
- Nuclear industry.
 Chemical and petrochemical industry.
- Aeronautical and aerospace industry.
- Renewable energy industry.

NOTES

- Maximum operating temperature: According to the flanges rating, tube thickness and materials.
- Maximum operating pressure: According to the flanges rating, tube thickness and materials.







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Thermocouple depending on the temperature range:

Туре	Range (°F)	Range (°C)	Standard Tolerances (°C)	Special Tolerances (°C)
Т	32-700	0-370	±1,0 o ±0,75%	±0,5 o ±0,4%
J	32-1400	0-760	±2,2 o ±0,75%	±1,1 o ±0,4%
E	32-1600	0-870	±1,7 o ±0,5%	±1,0 o ±0,4%
KoN	32-2300	0-1260	±2,2 o ±0,75%	±1,1 o ±0,4%

Thermocouple depending on the type of junction of the conductors:

Туре	Description
Α	Ungrounded
В	Grounded
С	Exposed

In the manufacturing process, solutions have been implemented to make these sensors resistant to high vibrations.

Accessories such as transmitter anchor rails and temperature transmitters are supplied upon request.

*Not including applicable notes to this tolerance table please refer to notes in applicable international standards.



