

MULTIPOINT SENSOR

for fractionating towers,
reactors and catalyzers

For precise multi-temperature mapping

- High measurement stability
- Up to 54 measuring points
- Compliant with ATEX/IECEX



Petrochemicals



Fractionating towers,
reactors and catalyzers

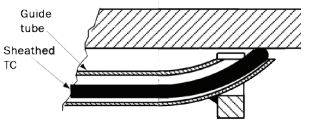


■ Operation

Fastened to the process by a clamp, the multipoint sensor comprises several thermocouples of different lengths. This multipoint assembly can be used to gather sufficient information on thermal gradation, in terms of number and quality, for timely mapping of evolving phenomena on the installation.

Depending on the application, various assemblies can be set up: see design diagram.

For thermocouples mounted with a protective tube, a specific design has been developed so that the tip of each thermocouple is in contact with the tube, a technique which ensures particularly high measurement accuracy.

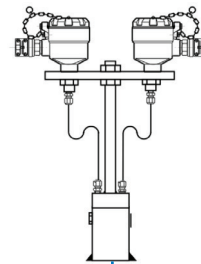
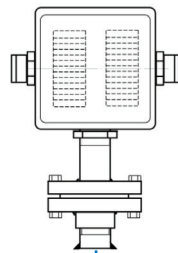


■ Multipoint sensor specifications

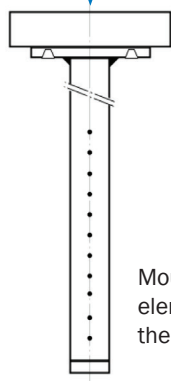
No. of measuring points	Up to 54 measuring points
Electrical connection	As required: - Standard or ATEX-compliant /"ia" safety connection unit - Standard or ATEX-compliant/"d" or "ia" safety connecting heads
Measuring elements	Thermocouples
Operating temperature	Up to 650 °C
Mounting of measuring elements	As required: - On the same generating line - Straight mounting - Free, bendable mounting
Protection of sensor bundle	None or as required: spacer, tube, flexible sheath, etc.
Sensor fastening	Clamp

■ Design diagram

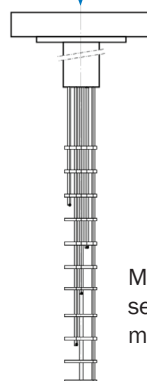
Non-ATEX or
ATEX/"ia" safety
casing



Mounting with several
connecting heads
-ATEX/"ia" or "d" safety



Mounting with sensing
elements in a tube on
the same generating line



Mounting with
sensing elements with
maintaining spacers



Mounting with free,
bendable sensing
elements

■ Other specifications

Specific features: our R&D team can produce tailored temperature sensors to your specifications. On request, we can provide calibration certificates, hydrostatic tests on lengths of up to 100 bar, liquid penetrant tests on welds and material certificates.

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