

VST temperature sensor

For medium pressure applications and fuel cell systems



Product description



The VST temperature sensor is used in applications where extremely fast response times are required, while still ensuring media compatibility.

Due to the compact design and the use of media-specific materials, the VST achieves excellent results in applications where space is critical, as well as under harsh environmental conditions. The specially developed measuring element not only ensures fast response times but also a high degree of accuracy.

The transmitter version of the VST with a linearised, analog output signal also offers the electrical protection and diagnostic functions typical to the automotive industry.

Fields of application

- H₂ applications and special media
- Cooling-water systems
- Fuel cell systems

Features

Specially developed measuring element and evaluation electronics

- Fast response times
- High accuracy

Use of materials with proven media compatibility

- Excellent media compatibility
- Suitable for high ambient temperatures
- EC79-tested version available

Compact design

- Suitable for pressure up to 30 bar
- Ideal for integration into applications where space is critical

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Technical Specifications

Measurement range

Temperature	-40–115 °C other available on request
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Electrical characteristics

Supply voltage	5 V±0,25 V
Current consumption	max. 10 mA
Output signals	0.5 V–4.5 V, analog PT1000 Class F0.15 or Class F0.3

Mechanical characteristics

Housing material	Stainless steel
Pressure connection	M10x1 with o-ring sealing
Thread	Male thread

Electrical connection	3-pin MQS connector
Installation position	Any
Weight	approx. 26 g

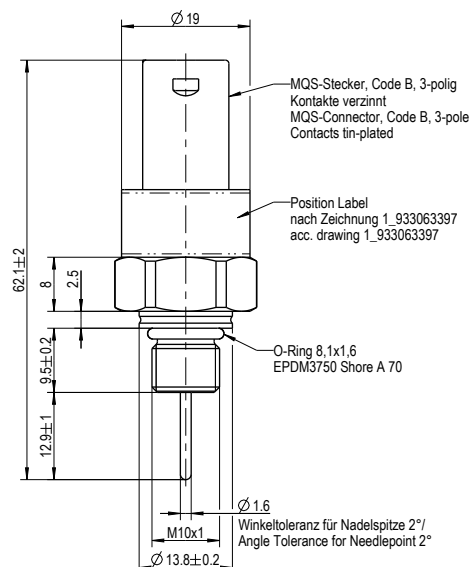
Accuracy

Total error	High accuracy up to ±1K, standard ±1.5K
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Environmental conditions

Operating temperature range	-40–120 °C
Media temperature range	-50–120 °C
Media compatibility	Hydrogen, air, nitrogen, coolant (DI-water, ethylene glycol)

Dimensions



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