# **VST temperature sensor**



For medium pressure applications and fuel cell systems

### **Product description**



The VST temperature sensor is used in applications where extremly 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

- H<sub>2</sub> 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

### Electrical characteristics

Supply voltage 5 V±0,25 V

Current max. 10 mA

Output signals 0.5 V-4.5 V, analog PT1000 Class F0.15 or mechanical properties 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

#### **Environmental conditions**

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

#### **Dimensions**



