

Temperature sensor CTS

For high pressure applications and tank systems



Product description



The CTS temperature sensor is used in high pressure applications with H₂ and a pressure up to 900 bar.

Due to the compact design and the use of media compatible materials, the CTS achieves excellent results in applications where space is critical, as well as under harsh environmental conditions. The sensor boasts fast response times and a high degree of accuracy. The sensors are available in a resistive design with a PT1000 element.

Fields of application

- High pressure tanks and reservoirs
- Filling and refilling stations
- Measure and testing technology

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-certified version available

Compact design

- Suitable for pressures up to 900 bar
- Ideal for integration into applications where space is critical

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Technical Specification

Measurement Range

| | |
|-------------|---|
| Temperature | -60–120 °C others available on request |
|-------------|---|

Electrical connection

3-pin MQS connector

Installation position

Any

Weight

approx. 50 g

Electrical Characteristic

Supply voltage 12 V (LIN)

Output signal LIN, PT1000

Accuracy

Total error

high accuracy up to $\pm 1K$, standard $\pm 1.5K$

Mechanical Characteristic

Measuring element PT1000 Class F0.15 oder Class F0.3

Housing material Stainless steel

Pressure connection M14x1, conical sealing

Thread Male thread

Environmental Conditions

Operating temperature range -40–120 °C

Media temperature range -40–120 °C

Media compatibility Hydrogen, air, nitrogen, coolant (DI-water, ethylene glycol)

Dimension

