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Единый адрес: frn@nt-rt.ru **Веб-сайт:** www.fafnir.nt-rt.ru

Техническое описание термометра сопротивления TEMPERIX S FAFNIR

FAFNIR Sensors and Systems

Reliable, Universal Solutions for Your Level, Pressure and Temperature Measurement Requirements

FAFNIR prides itself on providing the highest-quality measurement solutions to all its customers, regardless of application complexity and size. After trading for approximately 45 years, driving industry innovation, and listening to our customers and their requirements, we are pleased to present FAFNIR's German-made, high-precision level, pressure and temperature measurement devices for the petroleum, pharmaceutical, chemical and food industries to you, our customers.

Why Buy FAFNIR Sensors and Systems?



Reliability, Accuracy and Ease of Installation as Standard

- + All our sensors are calibrated and stringently tested before they reach you, ensuring you receive only the best
- + With FAFNIR's "plug-and-play" sensors, installation is quick and easy
- + With pre-calibration, once installed, no adaptation to the liquid is required
- + Our sensor lifespan and failure rate is second to none. FAFNIR's field-proven sensors are installed globally



With 45 Years' Engineering and Manufacturing Experience, Customer Service is Key

- + Regardless of order complexity or size, we will find a solution for your business
- + We have listened to the market and we know you need the full solution from one supplier
- + We have extended our product portfolio to include pressure and temperature measurement so FAFNIR is at the forefront of your measurement needs
- + The FAFNIR team are experts. We design, manufacture and calibrate all of our products to the highest quality

The logo for FAFNIR, featuring the company name in a bold, sans-serif font with a trademark symbol, positioned above three horizontal lines. The logo is contained within a white circular graphic.

FAFNIR™

Difficult Installation Conditions Are No Challenge for FAFNIR.

- + Designed to meet every requirement, our sensors fit the smallest to the largest openings
- + Our extensive range of sensors means we will have a solution for you, even when other suppliers don't

Extreme Process Conditions?

- + Our sensors are proven in temperatures of up to 450 °C or with up to 200 bar of pressure
- + With a response time of less than 0.2 s and information regarding the filling levels with an accuracy of ± 0.3 mm, you have constant visibility of your liquid stock
- + Reliability assured in corrosive, toxic and viscous substances

Temperature Measurement

Measuring the medium temperature is a common task in the pharmaceutical as well as in the chemical industry.

Due to the need to process the measurement result and meet the documentation requirements, almost all measuring devices used are electronic. This measurement is usually achieved with invasive measuring systems which reach into the process area.

When it comes to relatively small pipe diameters, a sensor tip reaching into the process area can be a significant obstacle to the flow. Therefore, the measurement of the pipe surface can be a better solution, as offered by FAFNIR, without any interference to the process.

TEMPERIX S

Resistance Thermometer with Screw-in Thermowell or Flange Connection

This resistance thermometer is suited for operation on tanks and pipes. All standard types of process connections are available. A variety of transmitters for head mounting (4 to 20 mA/HART®) are available for different applications.

Why Choose the TEMPERIX S?

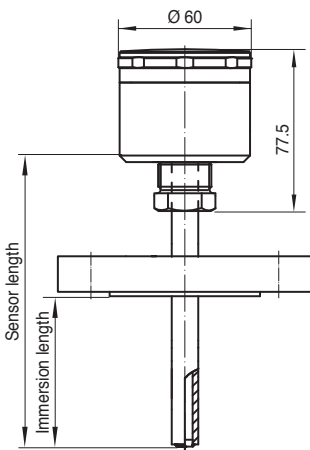
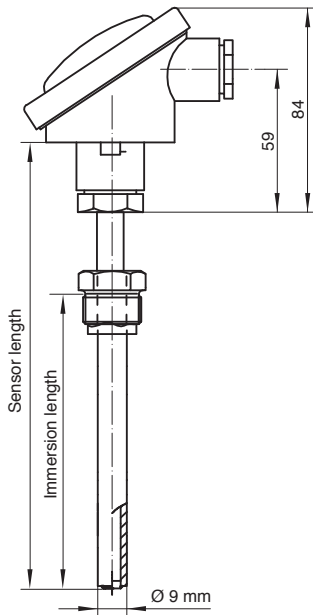
Main Features and Benefits

- + Pt 100 connection in 3-wire technology or a 4 to 20 mA/HART® head transmitter
- + Measuring insert interchangeable
- + Process connection
 - for screw-in
 - with flange connection
- + Various thermowell designs available
- + ATEX approval
- + Qualified for SIL2 applications

Tried and Tested

- + General process application
- + Machinery and tank construction
- + Water and waste-water systems
- + Plant engineering





TEMPERIX S – Technical Data

Probe head

Standard housing

Protection class IP54

Material Aluminium

Field housing

Protection class IP67

Material Stainless steel 303

Cable terminal M12 x 1.5 cable gland for cable diameter 3 to 6.5 mm
M16 x 1.5 cable gland for cable diameter 5 to 10 mm
M12 connector

Ambient temperature

Probe tube

Material Stainless steel 316Ti; other on request

Process connection G 1/2", G 3/4", G1"
1/2" NPT, 3/4" NPT
DN 25, DN 50 Flange

Measurement technology PT 100

Accuracy class A

Temperature range -50 °C to +400 °C

Electrical connection

Output 3-wire PT 100
2-wire 4 to 20 mA (with Transmitter Sitrans T100)
2-wire 4 to 20 mA/HART® (with Transmitter Sitrans T300)

Datasheet Temperature Transmitter

Ambient temperature -40 °C to +85 °C

Voltage 8.5 to 36 V_{DC}, Ex version 8.5 to 30 V_{DC}

Signal Power output: 4 to 20 mA/HART®

Response time <0.7 sec

Offset Configurable -100 °C to +100 °C

Accuracy >0.25 °C or 0.1 % of nominal range

Temperature effect <0.01 %/°C

Optional ATEX certificate



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