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Техническое описание датчика давления PRESSURIX 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



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



Pressure Measurement

Measuring pressure is one of the most common measurement applications in process technology. However, rarely is one process exactly like another and therefore customized solutions are often superior to off-the-shelf products when it comes to accuracy and safety. These solutions are generally less cost-effective or time-efficient. FAFNIR has designed customer-specific solutions with highly standardized components and processes with exceptional flexibility to ensure each process and OEM application pressure measurement needs are met.

FAFNIR understands that pressure transmitters in Process industries face numerous challenges. Whether an application requires explosion safety, SIL-compliance, or be read-on-site; FAFNIR's portfolio addresses these requirements.

PRESSURIX S

Pressure Transmitter for Use in Tough Environments

The PRESSURIX S versions of our pressure transmitter for applications where a 4 to 20 mA interface is enough. Because of various variants of process connections and materials, these transmitters are especially suited for pressure measurement with aggressive, highly viscous, solidifying or crystallizing media.

Why Choose PRESSURIX S?

Precise and Adaptable

- + The welded stainless steel housing can be designed up to protection type IP 67 ensuring precise readings
- + The use of temperature decouplers means that the PRESSURIX S pressure transmitter can be used for process temperatures up to 350 °C and are highly adaptable to varying environment conditions

Main Features and Benefits

- + Output signal: 4 to 20 mA
- + Compact stainless steel housing
- + High variety on process connections
- + Measuring ranges from 0 to 160 mbar to 0 to 400 bar
- + Process temperature up to 350 °C
- + Accuracy ≤ 0.2 %
- + Qualified for SIL2 applications

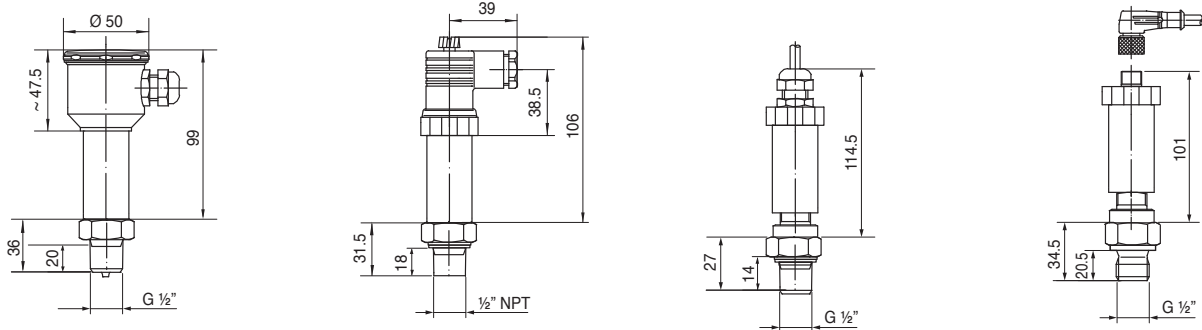
Tried and Tested

- + Chemical and petrochemical industry
- + Process engineering
- + General process technology



PRESSURIX S – Technical Data

Probe head	
Protection class	IP65/IP67
Material	Stainless steel 304
Cable terminal	M16 x 1.5 cable gland for cable diameter 5 to 10 mm Right angle Plug (DIN-EN 175301-803-A) Cable Connection M12 Connector
Ambient temperature	-20 °C to +85 °C
Probe tube	
Material	Stainless steel 316L; Hastelloy® C4; other on request
Accuracy	
Linearity	<0.2 % of nominal range <0.3 % of nominal range for sensors ≥60 bar
Temperature effect	Zero point <0.2 %/10 K of nominal range (0 °C to +50 °C)
(in compensated temperature range)	Span <0.2 %/10 K of nominal range (0 °C to +50 °C)
Response time	≤20 ms
Adjusting range	±5 % f.s. zero point and span independently
Measurement principle	Piezoeresisitive measuring element or above 160 bar thin film technology
Electrical connection	
Connection	2-wire
Voltage	8 to 30 V _{DC} , Ex version 10 to 30 V _{DC}
Signal	Power output: 4 to 20 mA
Process conditions	
Temperature	up to 350 °C
Pressure	up to 400 bar
	ATEX approval
	Qualified for SIL 2 (IEC 61508)



PRESSURIX S ST with G 1/2" thread for up to 80 °C and with the field housing option.

PRESSURIX S ST with NPT 1/2" thread for up to 80 °C and an right angle plug (Form A) option.

PRESSURIX S NT with G 1/2" thread for and temperature decoupler up to 140 °C (short term) with the a fixed cable option.

PRESSURIX S NT with G 1/2" thread for up to 140 °C (short term) with the M12 Connector option.

PRESSURIX S

Ideal for most standard applications

Process connection

G 1/2" B; 1/2" NPT (inline diaphragm) up to 400 bar
 G 1/2" A flush-mounted diaphragm with O-Ring (up to 60 bar)
 G 1/2" B flush-mounted diaphragm (up to 160 bar)

Process conditions

Temperature

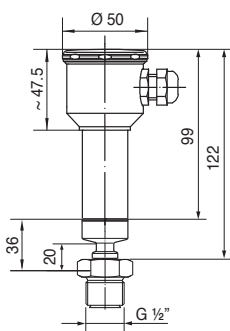
Standard temperature (ST): -10 °C to +80 °C
 High temperature (NT): -10 °C to +140 °C (short term for sterilization process)

Pressure

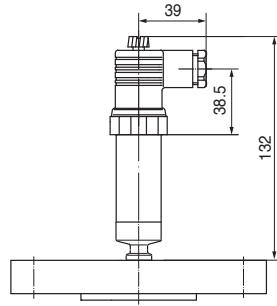
0 to 1 bar to 0 to 400 bar (relative)
 -1 to 0 bar to -1 to 15 bar (relative)
 0 to 1 bar to 0 to 25 bar (absolute)

System filling

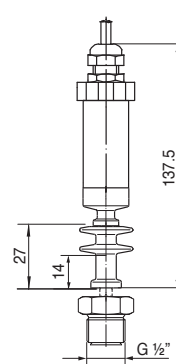
FD1-Oil



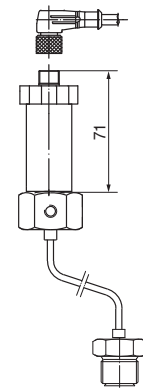
PRESSURIX SD NT with G 1/2" thread for up to 140 °C, shown with the field housing.



PRESSURIX SD NT with a flange for up to 140 °C and the right angle plug (Form A) option.



PRESSURIX SD HT with G 1/2" thread and temperature decoupler for up to 200 °C (short term) with the fixed cable option.



PRESSURIX SD HHT with G 1/2" thread and a capillary for remote mounting for up to 350 °C. Shown with a M12 Connector.

PRESSURIX S with Diaphragm Seal

Gives you full flexibility in process connection and installation situations

Process connection	All common process connections
Process conditions	
Temperature	Normal temperature (NT): -10 °C to +140 °C High temperature (HT): -10 °C to +200 °C Highest temperature (HHT): -10 °C to +350 °C
Pressure	0 to 1 bar to 0 to 400 bar (relative) -1 to 0 bar to -1 to 15 bar (relative) 0 to 1 bar to 0 to 25 bar (absolute)
System filling	NT: silicon oil FS, standard HT: silicon oil FS, high temp HHT: high temperature oil Other oils on request

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