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# Техническое описание датчика давления PRESSURIX A 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  $\pm 0.3$  mm, you have constant visibility of your liquid stock
- + Reliability assured in corrosive, toxic and viscous substances



# Pressure Measurement

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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.

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# PRESSURIX A

## Accurately Measure Pressure in All Scenarios

The pressure transmitter PRESSURIX A, which uses “smart” modular technology, is suited for measuring the relative and absolute pressure of gases, vapours and liquids. The broad range of process connections allows the device to be deployed in a variety of processes. The diaphragm seal with flange connection is applicable for pressure measurement with aggressive, highly viscous, solidifying or crystallizing media.

## Why Choose PRESSURIX A?

### Main Features and Benefits

- + Modular pressure transmitter (2-wire technology, 4 to 20mA, optionally with HART®)
- + Convenient “plug-and-play” technology
- + Multi-function display
- + Large variety on process connections
- + Measuring range 80 mbar to 400 bar
- + Process temperature up to 350 °C
- + Accuracy  $\leq 0.15\%$
- + Turn down 5:1
- + ATEX approval
- + Qualified for SIL2 applications
- + With internal tank table: ideal also for level measurement application

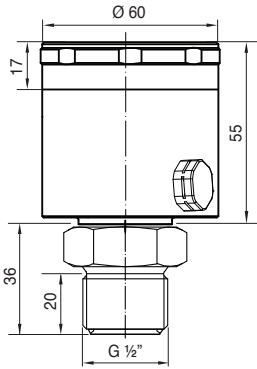
### Tried and Tested

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

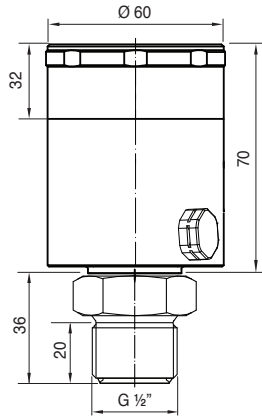


## PRESSURIX A – Technical Data

<b>Probe head</b>	
Protection class	IP66
Material	Stainless steel 304 Makrolon Viton
Head design	Two-chamber system with PTFE pressure compensation filter
Cable terminal	M16 x 1.5 cable gland for cable diameter 5 to 10 mm M12 Connector
Ambient temperature	-25 °C to +85 °C
<b>Probe tube</b>	
Material	Stainless steel 316L; Hastelloy® C4; other on request
<b>Accuracy</b>	
Linearity	≤0.15 % of span
Repeatability	≤0.05 % of nominal range
Long-term drift	0.1 %/year of nominal range
Temperature effect	±0.15 %/10 K of nominal range (0 °C to +60 °C) ±0.2 %/10 K of nominal range (<0 °C; > +60 °C)
Influence of mounting position	≥3.5 mbar (if not mounted vertical)
Turn down	5:1
Response time	>0.2 s
Measuring technology	Piezoresistive measuring element
<b>Electrical connection</b>	
Connection	2-wire
Voltage	12 to 40 V <sub>DC</sub> , Ex Version: 12 to 30 V <sub>DC</sub>
Signal	Power output: 4 to 20 mA/HART®
<b>Process conditions</b>	
Temperature	up to 350 °C
Pressure	up to 400 bar (overload limit up to 600 bar)
<b>Options</b>	
	Display
	ATEX approval
	Qualified for SIL 2 (IEC 61508)
	Tank table with 32 points: ideal also as level measurement



PRESSURIX A ST with a G 1/2" thread.  
The housing is for either the display  
or the HART® module.



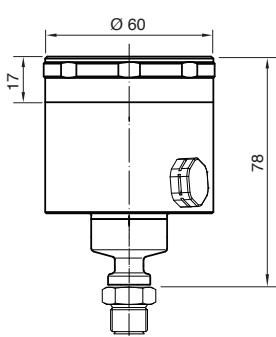
PRESSURIX A ST with a G 1/2" thread.  
The housing is for both the display  
and the HART® module.

## PRESSURIX A

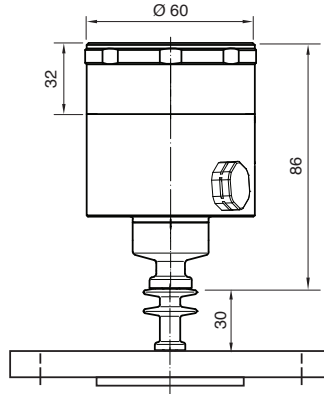
Ideal for most standard applications

Process connection	G 1/2" B (inline diaphragm)
Process conditions	
Temperature	Standard temperature (ST): -20 °C to +90 °C
Pressure	G 1/2" A (DIN 3852) flush-mounted diaphragm (up to 100 bar) G 1/2" B with O-ring flush-mounted diaphragm (up to 40 bar)  -0.4 to 0.4 bar up to -1 to 100 bar (relative) Overload limit (1 bar to 200 bar)  0 to 4 bar up to 0 to 16 bar (absolute) Overload limit (10 bar to 60 bar)

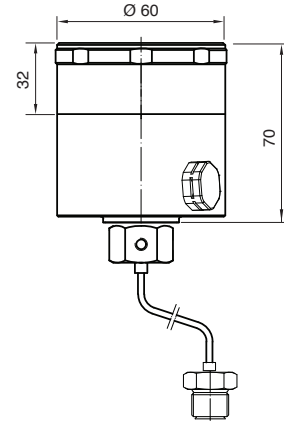




PRESSURIX AD NT with a G 1/2" thread and for up to 125 °C. The housing is for either the display or the HART® module.



PRESSURIX AD NT+ with a flange for up to of 160 °C. The housing is for both the display and the HART® module.



PRESSURIX AD HHT with a G 1/2" thread and a capillary for remote mounting of up to 350 °C. The housing is for both the display and the HART® module.

### PRESSURIX AD 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): -20 °C to +125 °C Normal temperature plus (NT+): -20 °C to +160 °C High temperature (HT): -20 °C to +200 °C Highest temperature (HHT): -20 °C to +350 °C
Pressure	0 to 1 bar up to 0 to 400 bar (relative) -1 to 0 bar up to -1 to 15 bar (relative) 0 to 1 bar up to 0 to 25 bar (absolute)
System filling	NT: silicon oil FS standard NT+ and HT: silicon oil FS, high temp HHT: high temperature oil Other oils on request

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