

Installation Instructions Electronic pressure sensor

efectorsoc PA35xx

CE



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1 Safety instructions

- Please read this document prior to set-up of the unit. Ensure that the product is suitable for your application without any restrictions.
- If the operating instructions or the technical data are not adhered to, personal injury and/or damage to property can occur.
- Improper or non-intended use may lead to malfunctions of the unit or to unwanted effects in your application. That is why installation, electrical connection, set-up, operation and maintenance of the unit must only be carried out by qualified personnel authorised by the machine operator.
- In order to guarantee the correct condition of the device for the operating time the device must only be used in media to which the wetted parts are sufficiently resistant (→ Technical data).
- Use in gases at pressures > 25 bar only after contacting the manufacturer ifm.
- The responsibility whether the measurement devices are suitable for the respective application lies with the operator. The manufacturer assumes no liability for consequences of misuse by the operator. Improper installation and use of the devices result in a loss of the warranty claims.

2 Function and features

The pressure sensor detects the system pressure and converts it into an analog output signal.

• 4 ... 20 mA

2.1 Applications

Type of pressure: relative pressure

Order no.	Final value of the measuring range (nominal pressure)		Static pressure resistance (max. permissible pressure)		Bursting pressure		UK
	bar	psi	bar	psi	bar	psi	
PA3509	-11	-14.514.5	10	145	30	435	
PA3526	02.5	036.3	20	290	50	725	
PA3524	010	0145	75	1087	150	2175	
PA3523	025	0363	150	2175	350	5075	
PA3522	0100	01 450	300	4 350	650	9400	
PA3521	0250	03 625	400	5 800	850	12300	
	mbar	psi	bar	psi	bar	psi	
PA3589	0100	01.45	4	58	30	435	
PA3528	0250	03.63	10	145	30	435	

MPa = bar ÷ 10 / kPa = bar × 100

Avoid overload pressure exceeding the specified maximum permissible pressure by taking appropriate measures.

The indicated bursting pressure must not be exceeded.

Even if the bursting pressure is exceeded only for a short time, the unit may be destroyed. ATTENTION: Risk of injury!

Use in gases at pressures > 25 bar only after contacting the manufacturer ifm.

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Pressure Equipment Directive (PED):

• Units comply with section 3, article (3) of the Directive 97/23/EC and are designed and manufactured for group 2 fluids (stable gases and non-superheated liquids) in accordance with the sound engineering practice.

3 Installation



Before mounting and removing the sensor, make sure that no pressure is applied to the system.

- ► Insert the unit in a suitable process connection (see type label "Port Size").
- Tighten firmly. Recommended tightening torque: 25...35 Nm

4 Electrical connection

The unit must only be connected by an electrician.

The national and international regulations for the installation of electrical equipment must be observed.

Voltage supply to EN50178, SELV, PELV.

- Disconnect power.
- Connect the unit as follows:



5 Technical data and scale drawing

Further technical data and scale drawing at www.ifm.com \rightarrow Data sheet search \rightarrow New search \rightarrow Enter the article number.

UK

More information at www.ifm.com