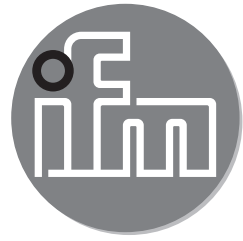


ifm electronic



Installation instructions
Electronic pressure sensor

efector500[®]

PC3xxx

PC9xxx

UK

01 / 2013

706296 / 00

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.

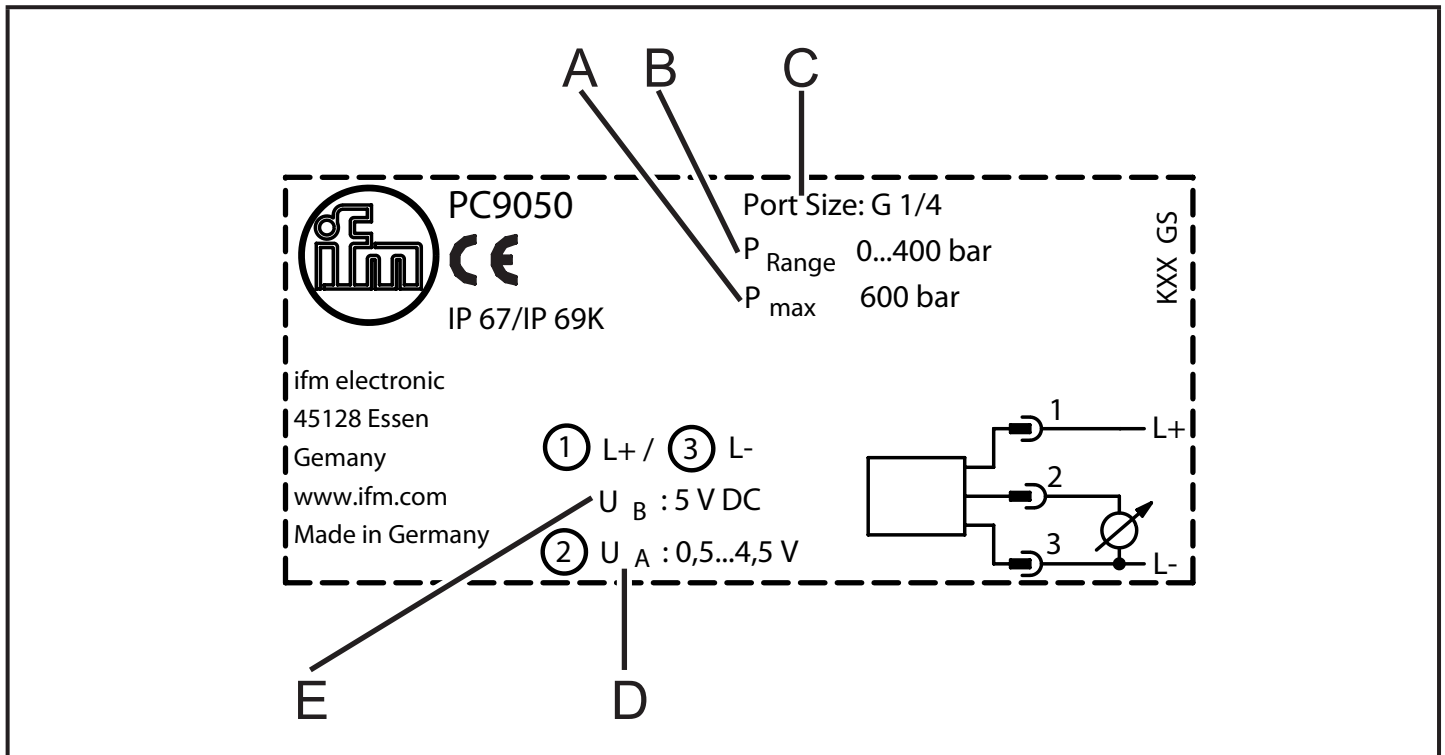


The unit is suitable for liquid and gaseous media unless the materials of the wetted parts are incompatible with the medium. (→ chapter 6 Technical data). Check the compatibility of the product materials with the media to be measured in all applications.



Units with a permissible overpressure > 200 bar allow a free selection of modules according to the 97/23/EC directive (pressure equipment directive). They are rated for stable gases of fluid group 1. These units are manufactured and tested according to module A. Units with a permissible overpressure ≤ 200 bar correspond to art. 3 para (3) of the directive and are rated and manufactured for stable gases of fluid group 1 in accordance with good engineering practice.

2 Type label (example, here PC9050)



3 Functions and features

The pressure sensor detects the system pressure and converts it into an analogue output signal:

→ type label (D): I_A for PC3xxx or U_A for PC9xxx.

3.1 Application area

- Type of pressure: relative pressure
- Measuring range → type label (B) / P_{Range}
- Permissible overpressure → type label (A) / P_{max}



Avoid static and dynamic overpressure exceeding the specified overload pressure by taking appropriate measures.

If the overload pressure is exceeded, the unit may be destroyed. NOTE: risk of injury!

UK

4 Installation



Before installing and removing the unit: Make sure that no pressure is applied to the system.

- ▶ Insert the unit into a suitable process connection → type label (C) / Port Size.
- ▶ Tighten firmly. Tightening torque: max. 25 Nm.

5 Electrical connection



The unit must be connected by a qualified electrician.

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

Voltage supply to EN 50178, SELV, PELV.

- ▶ Disconnect power.
- ▶ Connect the unit as indicated → type label (D, E).

6 Technical data



The indication of the following technical data is required in the directive 97/23/EC (pressure equipment directive). The technical data and the scale drawing can be found in the respective data sheet.

Ambient temperature [°C]	 -25...90 (-40...100 on request)
Medium temperature [°C]	 -25...90 (-40...100 on request)
Shock resistance [g]	 DIN EN 60068-2-27: 50 g (11 ms)
Vibration resistance [g]	 DIN EN 60068-2-6: 20 g (10...2000 Hz)
Materials (wetted parts)	 high-grade stainless steel (316L/1.4404); FPM (Viton)
Pressure cycles min.	 50 million

More information at www.ifm.com

