

Digital pressure sensor with flush, dry, capacitive ceramic measuring cell up to 60 bar, 4-digit LED display, 2 PNP switching outputs, 2- or 3-wire electronics selectable

Description

The **Precont® S40** device series with integrated digital evaluation electronics are compact sensors for hydrostatic pressure and level measurement. The basis of this sensor is a dry capacitive ceramic cell that offers the highest accuracy combined with very good long-term stability. The wide range of process connections, from threads to hygienic connections, allows it to be used in many applications.

For the housing, variants in stainless steel and various plastic designs are available. The devices are connected via an M12 plug connection, as a terminal connection, or with a fixed cable outlet.

As an output signal, you can choose between devices with an analog output in 2-wire technology (4-20mA) and versions with 3-wire (0-10V). In addition, the analog outputs can be combined with 2 freely adjustable switching points.

When it comes to display and operation on the device, great importance is attached to excellent readability and a simple menu structure. This is achieved by a bright illuminating LED display, which works perfectly even with 2-wire technology, and a straightforward menu structure.

Application

- Highly accurate pressure measurement, relative and absolute, up to 60 bar
- Up to 40-fold overload resistance, vacuum-proof
- Media temperatures from – 40°C to +125°C
- Connection housing made of stainless steel or PBT with terminal compartment or M12x1 plug
- 2 PNP switching outputs or 2- or 3-wire electronics
- Can be used as a pressure switch and pressure transmitter

Your Benefits

- **Robust** and **highly accurate** capacitive ceramic cell
- Up to 40-fold overload resistance, vacuum-proof
- Electronics **rotatable** by 330 degrees
- **Quick adjustment** via key combinations and menu-guided adjustment via LED display
- Bright LED display - readable from a long distance



Special Features



- ***Password function*** to protect settings from changes
- A variety of process connections with flush measuring cell selectable

Technical Data

Supply Voltage	
Voltage ranges:	14.5...45V DC with output signal 4...20mA / with display / Ex 14.5...30V DC 10.5...45V DC with output signal 4...20mA / without display / Ex 10.5...30V DC 14.5...45V DC with output signal 0...10V / Ex 14.5...30V DC
Current consumption:	≤ 22 mA; for 2-wire 4...20mA (PNP switching outputs in no-load operation) ≤ 10 mA; for 3-wire 0...10V (PNP switching outputs in no-load operation)
PNP Switching Output	
Function:	PNP switching to +Vs
Output current:	≤ 250 mA current-limited, short-circuit proof
Measuring Accuracy	
Characteristic curve deviation:	≤ ±0.05 / 0.1 / 0.2% FS
Long-term drift:	≤ ±0.1% FS / year non-cumulative
Temperature deviation:	≤ ±0.15% FS / 10 K (Zero / Span)
Materials	
Diaphragm: (wetted)	Ceramic AL ₂ O ₃ 99.9%
Process connection: (wetted)	Steel 1.4404/316L or 1.4571/316Ti
Connection housing:	CrNi-Steel / PBT Polybutylene terephthalate / PP – Polypropylene / POM – Polyoxymethylene (Delrin®)
Seals: (wetted)	FPM – Fluoroelastomer (Viton®) EPDM – Ethylene-propylene-diene monomer CR – Chloroprene rubber (Neoprene®) FFKM – Perfluoroelastomer (Kalrez®) NBR – Nitrile butadiene rubber
Environmental Conditions	
Ambient temperature:	– 40°C ... +85°C
Process temperatures:	– 40°C ... +100°C or +125°C
Process pressure ranges:	– 1 bar ... 60 bar
Turn-Down:	30:1
Protection class:	IP65 / IP67 EN/IEC 60529

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