

Digital Pressure Gauge

Accuracy 0,5 %

4 digit LCD display



Description

Digital pressure gauges provide a digital local indication independent from mains supply.

Their accuracy, reliability and resistance to mechanical load make them suitable for pressure measuring tasks in various applications.

To ensure an easy readout in any installation position the front cover may be rotated up to 350°. Additionally the display case may be rotated axial-wise by detaching the counter nut at the pressure connection.

The measuring ranges, graded in accordance with EN range from 1 bar up to 400 bar. The programming of the parameters is done by means of the front keys.

The integrated battery guarantees an operation independent from mains supply. Optionally a peak value memory, an analogue output or a limit contact can be provided.

The digital pressure gauge meets the electronic magnetic compatibility (EMC) requirements to EN 61326

Features

- Ranges from 1 bar up to 400 bar
- Finely graded selection of pressure ranges according to EN
- LCD-Display with 12,7 mm digit height
- High overload protection
- Option: peak value memory
- Option: analogue output
- Option: limit contacts

Measuring ranges

Gauge pressure
negative -1...0 bar
positive 0...1 bar to 400

Applications

Mechanical engineering,
plant and gadgets construction,
hydraulics and pneumatics

Model: P3960

Technical data

Model	P3960	Option
Display – range – accuracy – conversion rate ²⁾	7-segment LDC-display, height 12,7 mm 9999 0,5 % of F.S. ± 1 digit ¹⁾ 5 /sec	
Ranges acc. to EN	0...1 bar up to 0...400 bar	1000, 1600 and 2000 bar on request
Pressure type	positive gauge pressure	neg. gauge pressure
Overload limit	≤ 40 bar 3-fold ≥ 60 bar 2-fold ≥ 250 bar 1,5-fold	
Wetted parts	stainless steel 1.4571; AL ₂ O ₃ ; NBR	
Pressure connection	G ¼ A	others on request
Stability per year	≤ ± 0,3 % of F. S. in rated conditions	
Programmable parameters – zero point adjustment	≤ ± 25% v.EW.	
Power supply – battery lifetime – autom. switch off funct. ³⁾	9 V monoblock battery 5000h (600 mAh)	10000h (1200 mAh) 2...90 min. (factory preset)
temperature comp. range	0.... 60°C	
Temperature influence – zero point – span	≤ ± 0,2 % /10 K ≤ ± 0,1 % /10 K	
Protection type – max. rel. humidity	IP 65 nach EN 60529/IEC 529 < 90%, not condensating	
Emission ⁴⁾	acc. to EN 61326	
Interference ⁴⁾	acc. to EN 61326	
Electrical protection types	reverse polarity protection	
Temperature ranges – storage – media – ambient	-30 80 °C -30 85 °C 0 60 °C	
Case	plastic	
Weight	approx. 0,4 kg	

of F.S. = of full scale value

¹⁾ Terminal point adjustment according to DIN 16086 incl. linearity and hysteresis .

²⁾ Factory set between 1 to 10 /sec

³⁾ Not available for options analogue output or limit contact

⁴⁾ Declaration for conformity on request

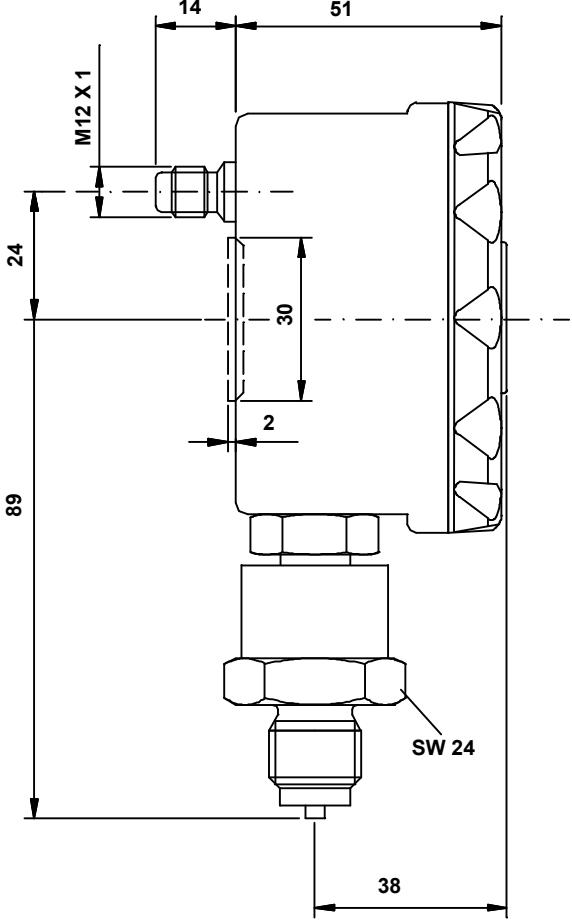
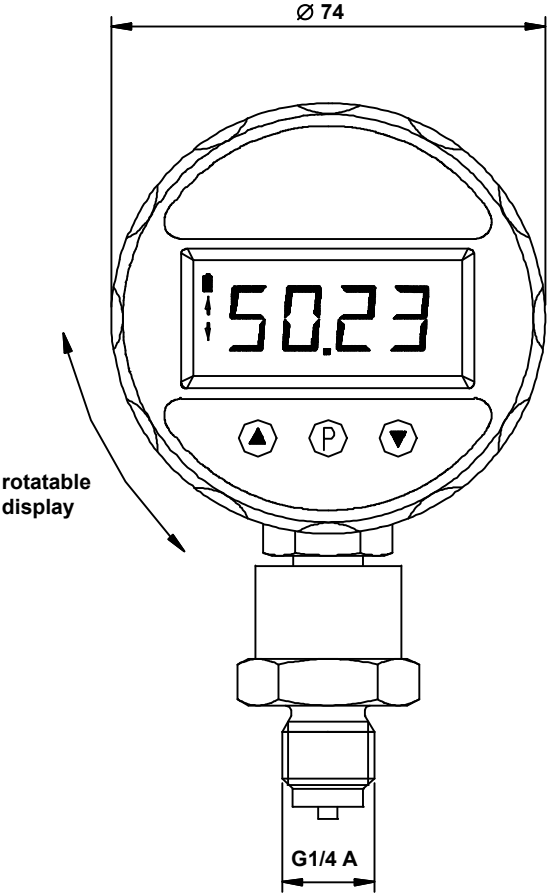
Options ⁵⁾

Peak value memory – programmable	as MIN- or MAX-value memory
Analogue output – load – electr. connection	0 ... 2 VDC ≥ 100 kΩ round connector M12x1, 5-pin or cable outlet, 0.5 m cable
Limit contact – switching function – contact rating – adjustability – electr. connection	Relay output NO 30 VAC/DC, 2A switching point and rest point freely programmable round connector M12x1, 5-pin or cable outlet, 0.5 m cable
Special version for oxygen	free of oil and grease

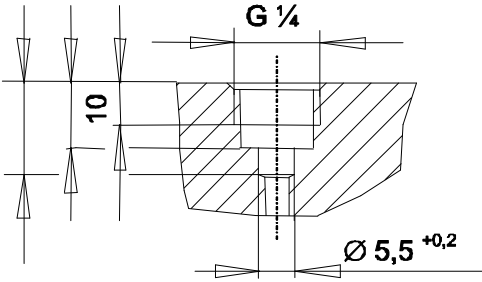
⁵⁾ Options analogue output and limit contact not available together

Dimensions (mm)

Case

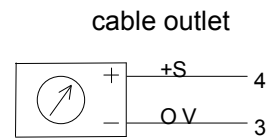
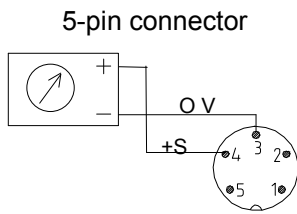


Screw-in aperture

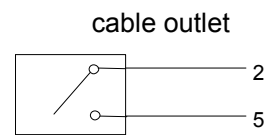
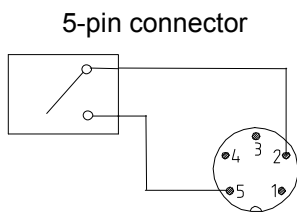


Electrical connection

Analogue output



Limit contacts



Order details

1. Model
2. Measuring range
3. Options

Subject to technical alternations