

Battery-operated Digital Pressure Gauge

DPG 400

Pressure ranges from 0 – 400 mbar to 0 – 600 bar

Accuracy $\leq \pm 0.25\%$

Application

The battery-operated digital pressure gauge DPG 400 is suitable for measuring and monitoring vacuum, positive pressures and absolute pressures of liquid and gaseous media for pressure ranges from 0 – 400 mbar to 0 – 600 bar.

A ceramic sensor serves as measuring element. The rotatable case is made of polycarbonate and has the degree of protection IP65. The digital pressure gauge is equipped with an integrated rotatable 4 ½ digit display with main and additional indication.

A unit conversion for widespread units has been integrated into the DPG 400. Additional functions are calibration of zero point and upper range value, min./max. value with reset function, battery status and an automatic switchoff.

Construction

- Accuracy: $\leq \pm 0.25\%$ FS
- Case and display rotatable
- 2-line LC display with main indication (measured value) and additional indication (unit)
- Wide range of pressure units
- Calibration of zero point and upper range value
- Battery 3.6 V lithium (2 x ½ AA)

Standard Versions

Process Connection

Material: stainless steel 316L (1.4404)
Connection thread: G ½ B (DIN EN 837)

Measuring Cell/Sensor

Ceramic sensor made of Al₂O₃ 96 %

Sensor Sealing

FKM

Case

PA 6.6, polycarbonate, NCS 80 (3°), degree of protection IP65, rotatable

Pressure Ranges/Overload Capability in bar

Vacuum	Positive pressure	Absolute pressure	Overload	Burst pressure
-1 / 0	-	-	4	7
-	0 – 0.4	-	1	2
-	0 – 0.6	0 – 0.6	2	4
-	0 – 1.0	0 – 1.0	2	4
-	0 – 1.6	0 – 1.6	4	5
-	0 – 2.5	0 – 2.5	4	5
-	0 – 4	0 – 4	10	12
-	0 – 6	0 – 6	10	12
-	0 – 10	0 – 10	20	25
-	0 – 16	0 – 16	40	50
-	0 – 25	0 – 25	40	50
-	0 – 40	0 – 40	100	120
-	0 – 60	0 – 60	100	120
-	0 – 100	0 – 100	200	250
-	0 – 160	0 – 160	400	500
-	0 – 250	0 – 250	400	500
-	0 – 400	0 – 400	600	650
-	0 – 600	0 – 600	600	880

PN ≥ 1 bar: vacuum resistance unrestricted

Display

LC display
Visible area: 40x30 mm (1.57x1.18")
Main indication (measured value): 4 ½ digit, 7 segment indication digit height 11 mm (0.43")



Additional indication (unit): 6 digit, 14 segment indication digit height 7.5 mm (0.3")

Indicating range: ± 19999
Pressure units: bar, mbar, psi, inHg, cmHg, mmHg, hPa, kPa, MPa, mH₂O, inH₂O

Actual value and MIN/MAX with reset function
Calibration of zero point and upper range value
Battery status

Supply Voltage

2x3.6 V lithium battery (½ AA)

Automatic Switchoff

Configurable 0 – 5 min

Measurement Accuracy

$\leq \pm 0.25\%$ FS

Temperature

Operating temperature: -20 °C to +70 °C (-4 °F to +158 °F)
Medium temperature: -20 °C to +85 °C (-4 °F to +185 °F)
Storage temperature: -30 °C to +80 °C (-22 °F to +176 °F)

Temperature Influence

0.2 % FS/10 K

Reference Temperature

+25 °C (+77 °F)

Sample Rate

5 measurements/s

Electromagnetic Compatibility

Interference emission and stability according to DIN EN 61 326

Options

- Process connection G ½ B (DIN EN 837)
- Process connection ½" NPT, ¼" NPT

Ordering Information

Please specify in your order:

Basic model DPG 400
Process connection e.g. G ½ B (DIN EN 837)
Pressure range e.g. 0 – 4 bar, positive pressure

Example: DPG 400, G ½ B (DIN EN 837), 0 – 4 bar, positive pressure

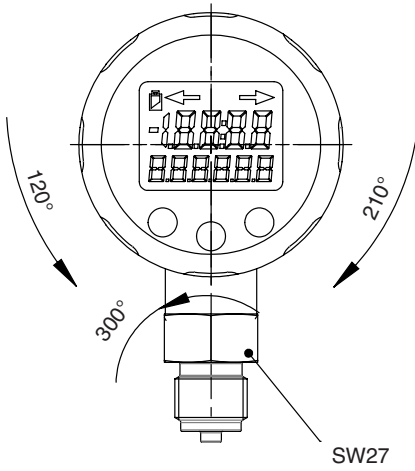
www.armano-messtechnik.com

Case Configuration, Dimensional Data (mm/inch) and Weight (g/lb)

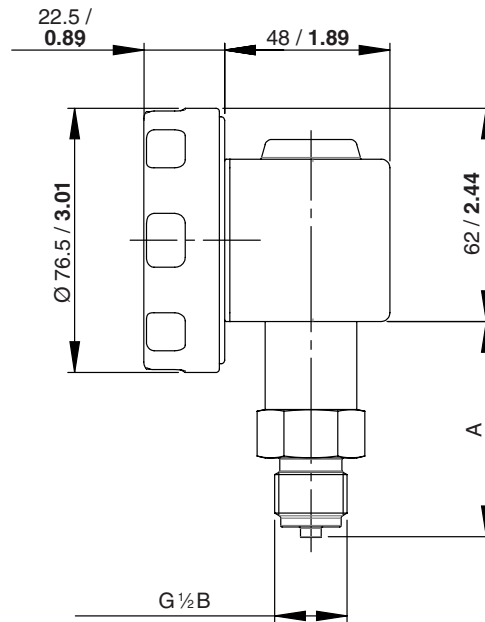
Process Connection

Standard: G 1/2 B (DIN EN 837)

front view



lateral view

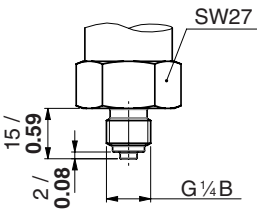


Dimension A

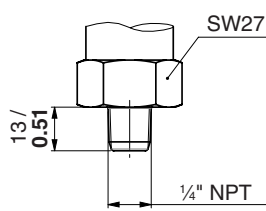
Connection	in mm/inch
G 1/2 B (DIN EN 837)	62.5 / 2.46
G 1/4 B (DIN EN 837)	54.5 / 2.15
1/4" NPT	54.5 / 2.15
1/2" NPT	60.5 / 2.38

Optional process connections

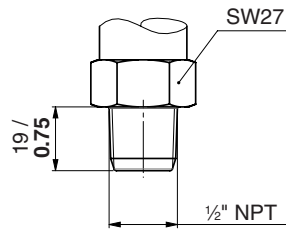
G 1/4 B (DIN EN 837)



1/4" NPT



1/2" NPT



Weight

Approx. 300 g (0.66 lb)