

BAROLI 05

Battery Powered Digital Pressure Gauge

Ceramic Sensor

class 0.2

Nominal pressure

from 0 ... 400 mbar up to 0 ... 600 bar

Special characteristics

- ▶ rotatable housing
- ▶ 2-line LC display
4.5-digit 7-segment display
6-digit 14-segment additional display
- ▶ different mechanical connections:
inch, NPT threads

Functions

- ▶ min / max function with reset function
- ▶ offset and end point calibration
- ▶ setting the pressure unit
(bar, mbar, psi, InHg, cmHg, mmHg,
hPa, kPa, MPa, mH₂O, InH₂O)
- ▶ switch-off automatic configuration

The battery-powered digital pressure gauge BAROLI 05 has been designed for measuring the pressure (absolute or gauge) of fluids, oils and gases.

The display housing is rotatable, thus ensuring an easy reading even under unfavourable mounting conditions. Additional functions as changing unit, displaying min / max values, calibrating the offset and of span, as well as configuring the automatic switching-off complete the profile.

Preferred areas of use are



Plant and machine engineering
Pneumatics / hydraulics

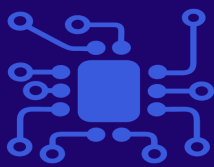


Laboratory techniques



Environmental engineering
(water - sewage - recycling)





Input pressure range

Nominal pressure gauge [bar]	0.4	0.6	1	1.6	2.5	4	6	10	16	25	40	60	100	160	250	400	600
Nominal pressure abs. [bar]	-	0.6	1	1.6	2.5	4	6	10	16	25	40	60	100	160	250	400	600
Overpressure [bar]	1	2	2	4	4	10	10	20	40	40	100	100	200	400	400	600	800
Burst pressure [bar]	2	4	4	5	5	12	12	25	50	50	120	120	250	500	500	650	880
Vacuum pressure	-1 ... 0 bar, overpressure: 4 bar, burst pressure: 7 bar																
Vacuum resistance	P _N ≥ 1 bar: unlimited vacuum resistance P _N < 1 bar: on request																

Performance

Accuracy ¹ ≤ ± 0.25 % FSO BFSL

Measuring rate 5/sec

¹ accuracy according to IEC 60770 – minimum value setting (non-linearity, hysteresis, repeatability)

Thermal effects (offset and span)

Thermal effects ≤ ± 0.2 % FSO / 10 K in compensated range 0 ... 85 °C

Permissible temperatures

Permissible temperatures medium: -20 ... 85 °C environment: -20 ... 70 °C storage: -30 ... 80 °C

Mechanical stability

Vibration 5 g RMS (25 ... 2000 Hz) according to DIN EN 60068-2-6

Shock 100 g / 1 msec according to DIN EN 60068-2-27

Materials

Pressure port / housing stainless steel 1.4404 (316L)

Display housing PA 6.6, Polycarbonate

Seals (media wetted) FKM

Diaphragm ceramics Al₂O₃ 96 %

Media wetted parts pressure port, seals, diaphragm

Miscellaneous

Display LC-Display, visible range 40 x 30 mm;
4.5-digit 7-segment main display, digit height 11 mm, range of indication ±19999;
6-digit 14-segment additional display, digit height 7.5 mm

Electromagnetic compatibility emission and immunity according to EN 61326

Supply 3.6 V lithium battery; 2 pieces (1/2 AA)

Data storage EEPROM (non-volatile)

Ingress protection IP 65

Installation position any

Weight approx. 300 g

AD-converter solution 14 bit

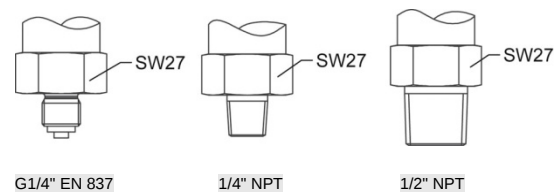
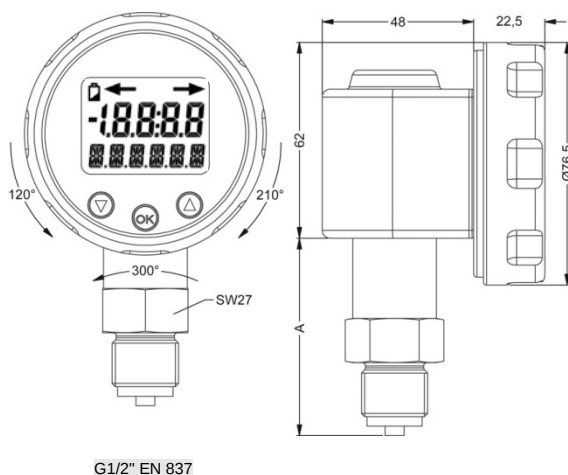
Operational life of battery standby mode: approx. 5 years

Mechanical operational life 100 million load cycles

CE-conformity EMC directive: 2014/30/EU pressure equipment directive: 2014/68/EU (module A) ²

² This directive is only valid for devices with maximum permissible overpressure > 200 bar.

Dimensions (in mm)



dimensioning value A:	
pressure port	mm:
G1/2" EN 837	62.5
G1/4" EN 837	54.5
1/4" NPT	54.5
1/2" NPT	60.5

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Ordering code BAROLI 05

BAROLI 05

□□□ - □□□□ - 0 - □□ - 0K0 - □□□ - □ - □ - □ - □ - □□□

Pressure									
gauge		M	0	0					
absolute		M	0	1					
Input									
[bar]									
0,4		4	0	0	0				
0,6		6	0	0	0				
1.0		1	0	0	1				
1.6		1	6	0	1				
2.5		2	5	0	1				
4.0		4	0	0	1				
6.0		6	0	0	1				
10		1	0	0	2				
16		1	6	0	2				
25		2	5	0	2				
40		4	0	0	2				
60		6	0	0	2				
100		1	0	0	3				
160		1	6	0	3				
250		2	5	0	3				
400		4	0	0	3				
600		6	0	0	3				
-1 ... 0		X	1	0	2				
customer		9	9	9	9				consult
Accuracy									
[BFSL]									
0.25 %						B	5		
customer						9	9		consult
Mechanical connection									
G1/2" EN 837						2	0	0	
G1/4" EN 837						4	0	0	
1/2" NPT						N	0	0	
1/4" NPT						N	4	0	
customer						9	9	9	consult
Seals									
FKM							1		
customer							9		consult
Pressure port									
stainless steel 1.4404 (316L)								1	
customer								9	consult
Diaphragm									
ceramics Al ₂ O ₃ 96%								2	
customer								9	consult
Front foil									
standard								1	
neutral								N	
customer								9	consult
Special version									
standard								0	0
customer								9	9
									consult

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SensaCo Ltd. | 6 Fortuna Court | Calleva Park | Aldermaston | RG7 8UB | U.K.

www.sensaco.co.uk