



BAROLI 02

Battery Powered Digital Pressure Gauge

Stainless Steel Sensor

class 0.1

Nominal pressure

from 0 ... 100 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

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

The battery-powered digital pressure gauge BAROLI 02 enables a local displaying of values, satisfying the highest demands for accuracy and long-term stability. The pressure gauge may be applied in all media compatible with the stainless steel used; it shows an excellent robustness and a high overpressure protection.

The BAROLI 02 display housing is rotatable, thus ensuring an easy reading even under unfavourable mounting conditions.

Additional functions:

changing the unit, displaying min / max values, calibrating of offset and the span, configuring the automatic switching-off

Preferred areas of use are



Plant and machine engineering
Pneumatics / hydraulics
Measurement technology
Calibration and test purposes



Laboratory techniques



Environmental engineering
(water – sewage – recycling)



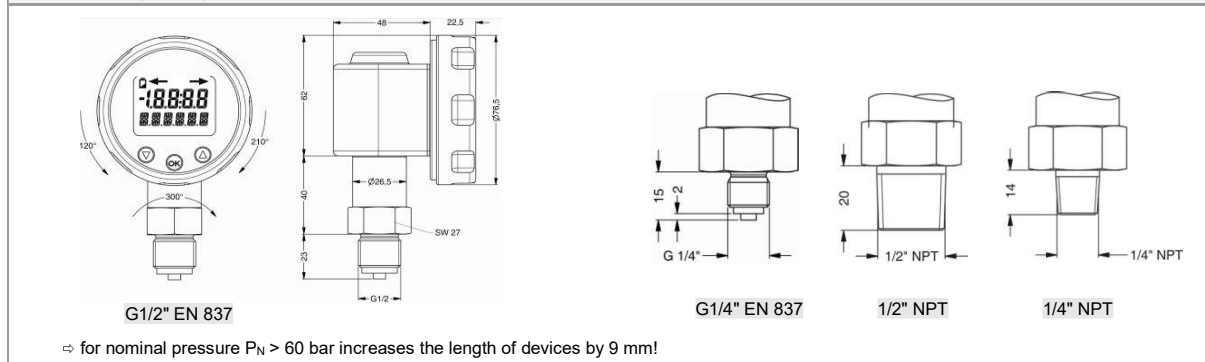
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Thermal effects (offset and span)				
Nominal pressure P _N	[bar]	-1 ... 0	≤ 0.40	> 0.40
Tolerance band	[% FS]	≤ ± 0.75	≤ ± 1	≤ ± 0.75
in compensated range	[°C]	-20 ... 85 °C	0 ... 70 °C	-20 ... 85 °C

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

Miscellaneous	
Display	LC display, visible range 40 x 30 mm; 4.5-digit 7-segment-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 (type 1/2 AA)
Data storage	EEPROM (non-volatile)
Ingress protection	IP 65
Installation position	any ²
Weight	approx. 300 g
AD-converter solution	14 Bit
Operational life of battery	standby mode: approx. 5 years
Mech. operational life	100 million load cycles
CE-conformity	EMC Directive: 2014/30/EU Pressure Equipment Directive: 2014/68/EU (Modul A) ³

Dimensions (in mm)



Ordering code BAROLI 02

BAROLI 02

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Pressure									
	gauge	M	0	E					
	absolute ¹	M	0	F					
Input									
	[bar]								
	0.10	1		1	0	0	0		
	0.16	1		1	6	0	0		
	0.25	1		2	5	0	0		
	0.40			4	0	0	0		
	0.60			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			consult
Accuracy									
	[BFSL]								
standard for $p_N \geq 0.4$ bar	0.125 %				B	2			
standard for $p_N < 0.4$ bar	0.250 %				B	5			
	customer				9	9			
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									
	stainless steel 1.4435 (316L)				1				
	customer				9				consult
Front foil									
	standard					1			
	neutral					N			
	customer					9			consult
Special version									
	standard						0	0	0
	customer						9	9	9
									consult

¹ absolute pressure possible from 0.4 bar