BAROLI 02

Battery Powered Digital Pressure Gauge

Stainless Steel Sensor

class 0.25



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, mH_2O, InH_2O)
- 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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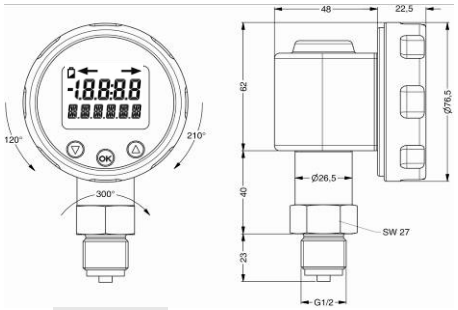
Input pressure ranges											
Nominal pressure gauge	[bar]	0.10	0.16	0.25	0.40	0.60	1	1.6	2.5	4	6
Nominal pressure abs.	[bar]	-	-	-	0.40	0.60	1	1.6	2.5	4	6
Overpressure	[bar]	0.5	1	1	2	5	5	10	10	20	40
Burst pressure	[bar]	1.5	1.5	1.5	3	7.5	7.5	15	15	25	50

Nominal pressure gauge / absolute	[bar]	10	16	25	40	60	100	160	250	400	600
Overpressure	[bar]	40	80	80	105	105	210	600	1050	1050	1250
Burst pressure	[bar]	50	120	120	210	210	420	1000	1250	1250	1250
Vacuum pressure		-1 … 0 bar, overpressure: 5 bar, burst pressure: 7.5 bar other vacuum ranges on request									
Vacuum resistance		$P_N \geq 1$ bar: unlimited vacuum resistance; $P_N < 1$ bar: on request									

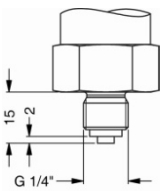
Performance			
Accuracy [1]	nominal pressure ≥ 0.4 bar: ≤ ± 0.25 % FSO nominal pressure < 0.4 bar: ≤ ± 0.5 % FSO		
Measuring rate	5/sec		
Long term stability	≤ ± 0.1 % FSO / year at reference conditions		
[1] accuracy according to IEC 61298-2 – limit point adjustment (non-linearity, hysteresis, repeatability)			
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
Permissible temperatures			
Permissible temperatures	medium: -20 ... 85 °C	environment: -20 ... 70 °C	storage: -30 ... 80 °C
Mechanical stability			
Vibration	5 g RMS / 10 … 2000 Hz	according to DIN EN 60068-2-6	
Shock	500 g / 1 msec half sine	according to DIN EN 60068-2-27	
Materials			
Pressure port / Housing	stainless steel 1.4404 (316 L)		
Display housing	PA 6.6, polycarbonate		
Seals (media wetted)	FKM		
Diaphragm	stainless steel 1.4435 (316 L)		
Media wetted parts	pressure port, seals, diaphragm		
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]	

[2] The digital pressure gauge is calibrated in a vertical position with the pressure connection down. If this position is changed on installation there can be slight deviations in the zero point for devices with stainless steel sensor and pressure range $P_N \leq 1$ bar.
[3] This directive is only valid for devices with maximum permissible overpressure > 200 bar.

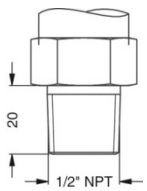
Dimensions (in mm)



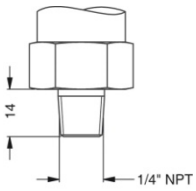
G1/2" EN 837



G1/4" EN 837



1/2" NPT



1/4" NPT

⇨ for nominal pressure P_N > 60 bar increases the length of devices by 9 mm!

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BD|SENSORS pressure measurement

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pressure measurement

Ordering code BAROLI 02

BAROLI 02 ☐☐☐ - ☐☐☐☐ - 0 - ☐ - 0K0 - ☐☐☐ - ☐ - ☐ - ☐ - ☐ - ☐☐☐

		Code	
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 9	consult
Accuracy			
standard for $p_N \geq 0.4$ bar	0.25 % FSO	2	
standard for $p_N < 0.4$ bar	0.5 % FSO	5	
	customer	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
Seal			
	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

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