



# **BAROLI 02**

# Battery Powered Digital Pressure Gauge

**Stainless Steel Sensor** 

#### Nominal pressure

from 0  $\dots$  100 mbar up to 0  $\dots$  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<sub>2</sub>O, InH<sub>2</sub>O)
- 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 unfavorable 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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The company BD SENSORS s.r.o. is certified by Bureau Veritas Czech according to the standard ISO 9001.

Input pressure ranges		0.40	0.40	0.05	0.40	0.60	4	1.0	25	4	0								
Nominal pressure gauge	<u> </u>	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 Burst pressure	[bar] [bar]	0.5 1.5	1	1 1.5	2	5 7.5	5 7.5	10 15	10 15	20 25	40								
•	[bai]	1.5	1.5	1.0		7.5	7.5	10	10	20	50								
Nominal pressure gauge / abs.	[bar]	10	16	25	40	60	100	160	250	400	600								
Overpressure	[bar]	40	80	80	105	210	210	600	1050	1050	1250								
Burst pressure	[bar]	50	120	120	210	420	420	1000	1250	1250	125								
Vacuum pressure			ar, overpre				5 bar o	other vacu	um ranges	on reques	t								
Vacuum resistance			ar: unlimite ar: on requ		resistance														
Performance																			
Accuracy <sup>1</sup>			pressure ≥ pressure: <																
Measuring rate		5/sec		-															
Long term stability		≤ ± 0.1 %	6 span / ye	ar															
<sup>1</sup> accuracy according to EN	I IEC 6282				nearity, hyst	teresis, repe	atability)												
Thermal effects (Offse							• /												
Nominal pressure P <sub>N</sub>	[bar]	,	-1 0			≤ 0	.40			> 0.40									
	% span]		≤ ± 0.7				± 1			≤ ± 0.75									
in compensated range [°C]		-20 85 °C					 70 °C		-20 85 °C										
Permissible temperatures				-															
Permissible temperature		medium:	-20 85 °	C.	en	/ironment:	-20 70	°C	store	age: -30	80 °C								
Mechanical stability			_0 00	-	Criv	onnont.	20 10	5	31012	-go. 00	35 0								
Vibration		5 g RMS	(25 200	)0 Hz)	ac	cording to	DIN EN 6	0068-2-6											
Shock		100 g / 1		,0112)				0068-2-27											
Materials																			
PLASSURE DOLL / HOUSING			steel 1 44	04 (316 L)						stainless steel 1.4404 (316 L) PA 6.6, polycarbonate									
Pressure port / Housing				. ,															
Display housing		PA 6.6, p		. ,															
Display housing Seals (media wetted)		PA 6.6, p FKM	olycarbon	ate															
Display housing Seals (media wetted) Diaphragm		PA 6.6, p FKM stainless	oolycarbon steel 1.44	ate 35 (316 L)															
Display housing Seals (media wetted) Diaphragm Media wetted parts		PA 6.6, p FKM stainless	olycarbon	ate 35 (316 L)															
Display housing Seals (media wetted) Diaphragm Media wetted parts <b>Miscellaneous</b>		PA 6.6, p FKM stainless pressure	oolycarbon steel 1.44 port, seals	ate 35 (316 L) s, diaphrag	jm														
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Display housing Seals (media wetted) Diaphragm Media wetted parts <b>Miscellaneous</b> Display Electromagnetic compa Supply Data storage Ingress protection		PA 6.6, p FKM stainless pressure LC displication ±' emission 3.6 V Litt EEPRON IP 65	steel 1.44 port, seals ay, visible 19999; 6-d n and immu hium batter M (non-vola	ate 35 (316 L) a, diaphrag range 40 x git 14-seg unity accor y; 2 piece	gm 30 mm; 4 ment addit ding to EN	tional displ 61326				mm, rang	e of inc								
Display housing Seals (media wetted) Diaphragm Media wetted parts <b>Miscellaneous</b> Display Electromagnetic compa Supply Data storage Ingress protection Installation position		PA 6.6, p FKM stainless pressure LC displication ± emission 3.6 V Lit EEPRON IP 65 any <sup>2</sup>	steel 1.44 port, seals ay, visible 19999; 6-d n and immu hium batter M (non-vola	ate 35 (316 L) a, diaphrag range 40 x git 14-seg unity accor y; 2 piece	gm 30 mm; 4 ment addit ding to EN	tional displ 61326				mm, rang	e of ind								
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Display housing Seals (media wetted) Diaphragm Media wetted parts <b>Miscellaneous</b> Display Electromagnetic compa Supply Data storage Ingress protection Installation position Weight AD-converter solution Operational life of batter mech. operational life	tibility	PA 6.6, p FKM stainless pressure LC displication ± <sup>-</sup> emission 3.6 V Littl EEPROM IP 65 any <sup>2</sup> approx. 3 14 Bit standby 100 millio	steel 1.44 port, seals ay, visible 19999; 6-d n and immu hium batter M (non-vola 300 g mode: app on load cyc	ate 35 (316 L) a, diaphrag range 40 x git 14-seg unity accor y; 2 piece atile) rox. 5 yea cles	ym 30 mm; 4 ment addit ding to EN (type 1/2 /	iional displ	ay, digit h	eight 7.5 m	۱m ــــــــــــــــــــــــــــــــــــ										
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 $\Rightarrow$  for nominal pressure P<sub>N</sub> > 60 bar increases the length of devices by 9 mm!

This data sheet contains product specification. properties are not guaranteed. Subject to change without notice.

BAROLI\_02\_EN\_05.03.2021



	Ordering code BAROLI 02
23.08.2024 BAROLI 02	
Pressure	
Gauge	M 0 E
Absolute (possible from 0,4 bar)	
Input [bar]	
0 0,1	
00,16	
0 0,25 0 0,4	
00,6	
01	
0 1,6	1 6 0 1
0 2,5	2 5 0 1
04	
06	6 0 0 1 1 0 0 2
0 10 0 16	
025	
040	
0 60	
0 100	1 0 0 3
0160	
0 250 0 400	2 5 0 3 4 0 0 3
0600	
-1 0	X 1 0 2
Customer	9 9 9 9
Customer underpressure	
Customer (P <sub>N</sub> > 40 bar)	9 9 9
Customer - underpressure (P <sub>N</sub> > 40 bar)	
0,25 % (for P <sub>N</sub> > 0,4 bar) 0,5 % (for P <sub>N</sub> ≤ 0,4 bar)	
0.25 % (for P <sub>N</sub> > 0.4 bar) including Calibration Certificate	5
$0.5\%$ (for $P_N \le 0.4$ bar) including Calibration Certificate	
Customer	9
Mechanical connection	
G 1/2" EN 837	2 0 0
G 1/4" EN 837	4 0 0
M 20x1,5 EN 837	8 0 0
1/2" NPT 1/4" NPT	N 0 0 N 4 0
Customer	9 9 9
Seals	
Viton (FKM) (P <sub>N</sub> < 100 bar)	1
NBR (P <sub>N</sub> ≥ 100 bar)	5
Without - welded (for $P_N \le 40$ bar)	2
Customer	9
Pressure port	
Stainless steel 1.4404 (316 L) Customer	9
Diaphragm	· · · · · · · · · · · · · · · · · · ·
Stainless steel 1.4435 (316 L)	1
Customer	9
Front foil	
Standard (design BD SENSORS)	1
Neutral	N
Customer	9
Special version	
Standard	0 0 0
Customer	9 9 9
Accessories	
Battery (2 pcs needed)	1000377







0,-...without additional charge

On request...in accordance with the producer

Surcharges for calibration are not subject to any discounts. Subject to change.

This document contains the specification for ordering the product; detailed technical parameters of the product and its possible variants are given in the data BD SENSORS reserves the right to change sensor specifications without further notice.



