



BAROLI 02P

Battery Powered Digital Pressure Gauge

Stainless Steel Diaphragm Flush Welded

class 0.1

Nominal pressure

from 0 ... 100 mbar up to 0 ... 40 bar

Special characteristics

- rotatable housing
- 2-line LC display 4.5-digit 7-segment display 6-digit 14-segment additional display
- hygienic process connections

Functions

- min / max function with reset function
- offset and end point calibration
- setting the pressure unit
- configuration of switch-off automatic

The battery-powered digital pressure gauge BAROLI 02P with flush welded stainless steel sensor enables a local displaying of values in applications, where high requirements hygienic process connections and easy cleaning or sterilization are requested. The filling medium is food compatible oil with FDA approval.

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

Additional functions:

switching the unit, displaying min / max values, calibrating the offset and the end point, configuring the automatic switching-off

Preferred areas of use are



Food industry



Pharmacy









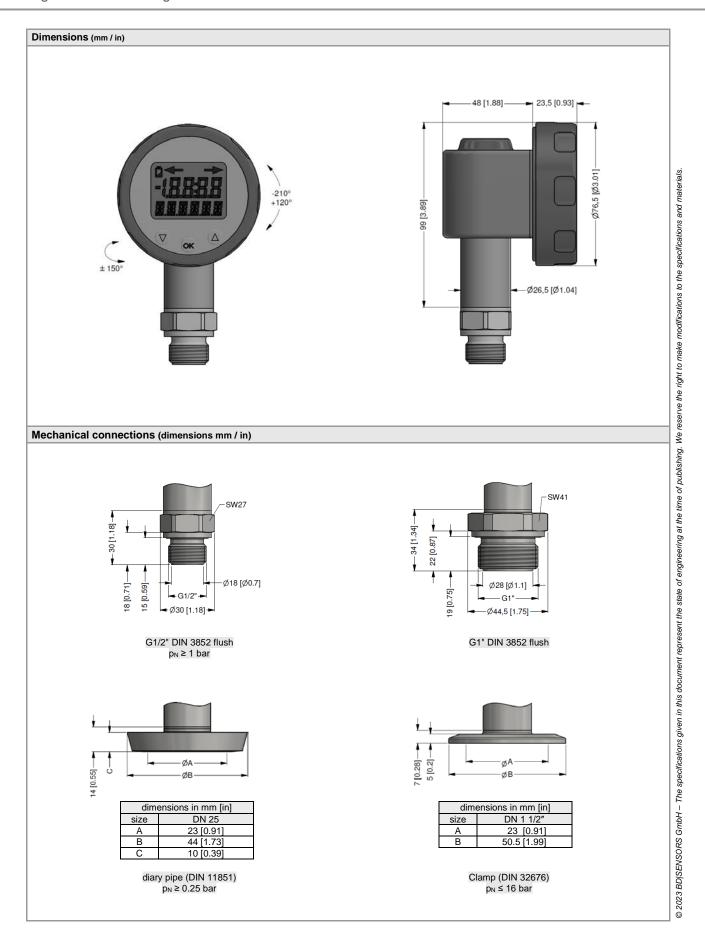


Digital Pressure Gauge

Input pressure ranges 1									
Nominal pressure gauge	[bar]	-1 0	0.10	0.16	0.25	0.40	0.60	1	1.6
Nominal pressure absolute	[bar]	-	-	=.	-	0.40	0.60	1	1.6
Overpressure	[bar]	5	0.5	1	1	2	5	5	10
Burst pressure ≥	[bar]	7.5	1.5	1.5	1.5	3	7.5	7.5	15
Nominal pressure gauge / absolute	[bar]	2.5	4	6	1	10	16	25	40
Overpressure	[bar]	10	20	40	4	10	80	80	105
Burst pressure ≥	[bar]	15	25	50	5	50	120	120	210
Vacuum resistance ¹ consider the pressure resistance	o of fitting	p _N ≥ 1 bar: unlimited vacuum resistance p _N < 1 bar: on request							
, ,	e or mang	y anu ciamps							
Performance									
Accuracy ²		nominal pressure ≥ 0.4 bar : ≤ ± 0.125 % BFSL nominal pressure < 0.4 bar: ≤ ± 0.25 % BFSL							
Measuring rate		5/sec							
² accuracy according to IEC 607	70 – mini	mum value sett	ing (non-linear	ity, hysteresis,	repeatability)				
Thermal effects (offset and s	nan)								

Accuracy ²		nominal pressure ≥ 0.4 bar : ≤ ± 0.125 % BFSL						
Measuring rate		nominal pressure < 0.4 bar: ≤ ± 0.25 % BFSL 5/sec						
	60770 – mini	inimum value setting (non-linearity, hysteresis, repeatability)						
Thermal effects (offset a		main value setting (non linearity, riyster	cois, repeatability)					
· · · · · · · · · · · · · · · · · · ·	• •	4 0	< 0.40	> 0.40				
Nominal pressure p _N Tolerance band	[bar] [% FSO]	-1 0 ≤ ± 0.75	< 0.40 ≤ ± 1.5	≥ 0.40 ≤ ± 0.75				
	[% F30] [°C]		0 50 °C	0 70 °C				
in compensated range		0 70 C	0 50 C					
Permissible temperature Medium ³	es	fillian florid of alliance all.	-40 125 °C					
		filling fluid of food compatible oil: -10 125 °C						
Environment		-20 70 °C						
Storage		-30 80 °C						
·	dium for nom	inal pressure gauge > 0 bar: 150 °C for	60 minutes with a max. environmental te	mperature of 50 °C				
Mechanical stability								
Vibration		5 g RMS (25 2000 Hz) according to IEC 60068-2-6						
Shock		100 g / 1 msec according to IEC 60068-2-27						
Materials / Filling fluids								
Housing		stainless steel 1.4404 (316 L)						
Pressure port		inch thread: stainless steel 1.4404 (316 L) Clamp, diary pipe: stainless steel 1.4435 (316 L) other on request						
Display housing		PA 6.6, polycarbonate						
Seals (media wetted)		standard: FKM clamp and dairy pipe: none						
Diaphragm		stainless steel 1.4435 (316 L)						
Media wetted parts		pressure port, seals, diaphragm						
Filling fluids	s standard: silicone oil option: food compatible oil with FDA-certificate (mobile SHC Cibus 32; class code: H1; NFS registration no.: 141500) other on request							
Miscellaneous								
EHEDG certificate Type EL Class I		EHEDG conformity is only ensured in combination with an approved seal. This is e.g. for - Clamp (C62): T-ring-seal from Combifit International B.V dairy pipe (M73): ASEPTO-STAR k-flex upgrade seal by Kieselmann GmbH						
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 compatib	oility	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 (standard: the device is calibrated in a vertical position with the pressure connection down; other than the given position for $p_N \le 2$ bar have to be declared at ordering)						
Weight		min. 350 g (pendent on the pressure connection)						
		min. 350 g (pendent on the press	ure connection)					
AD-converter solution		min. 350 g (pendent on the press 14 Bit	ure connection)					
	,	- " '	ure connection)					
AD-converter solution		14 Bit	ure connection)					

Digital Pressure Gauge



BAROLI 02P_E_110123



Ordering code BAROLI 02P **BAROLI 02P** -0K0-Pressure M 0 G gauge absolute M 0 H Input [bar] 0.10 0.16 2 0.25 4 0.40 0.60 1.0 1 1 2 4 6 1 1.6 2.5 4.0 6.0 10 16 1 2 4 X 9 25 40 -1 ... 0 customer consult [BFSL] B 2 B 5 9 9 standard for p_N ≥ 0.4 bar 0.125 % standard for $p_N < 0.4$ bar 0.250 % customer consult Mechanical connection G1/2" DIN 3852 with Z 0 0 flush diaphragm² G1" DIN 3852 with Z S flush diaphragm Clamp 1 1/2" (DIN 32676) 3 C 6 2 dairy pipe DN 25 (DIN 11851) 4,5 M 7 3 9 9 9 customer consult for clamp or dairy pipe: without 0 FKM customer 9 consult Diaphragm stainless steel 1.4435 (316L) 9 customer consult Front foil standard neutral Ν customer 9 consult Filling fluids silicone oil food compatible oil customer consult Special version 0 0 0 standard 9 9 9 customer consult

01.04.2022

the right to make modifications to the specifications and materials

We reserve

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¹ absolute pressure possible from 0.4 bar

 $^{^2}$ possible only for $p_N \ge 1$ bar

³ possible only for p_N ≤ 16 bar

 $^{^4}$ possible only for $p_N \ge 0.25$ bar; cup nut for dairy pipe included and pre-assembled

⁵ The cup nut has to be mounted by production of pressure gauge. The cup nut has to be ordered as separate position.