

BAROLI 02P

Battery Powered Digital Pressure Gauge

Stainless Steel Diaphragm Flush Welded

class 0.2



Digital Pressure Gauge

BAROLI 02P

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

CE

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 on hygienic process connections and easy cleaning or sterilisability 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 unfavorable mounting conditions.

Additional functions as switching the unit, displaying min / max values, calibrating the offset and the end point, as well as configuring the automatic switching-off complete the profile.

Preferred areas of use are



Food Industry

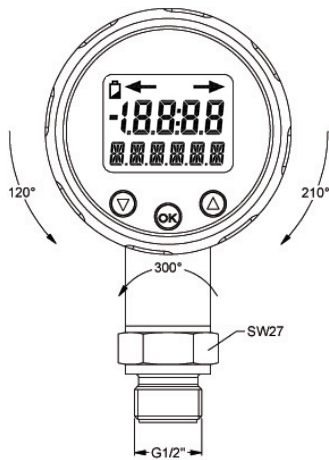


Pharmacy

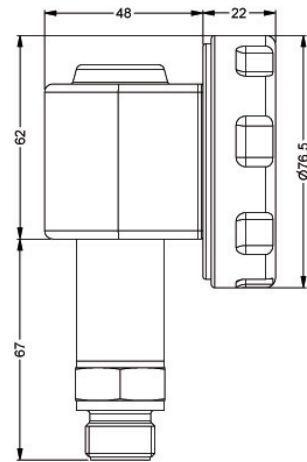
Input pressure ranges ¹								
Nominal pressure gauge / abs. [bar]	-1 ... 0	0.10	0.16	0.25	0.40	0.60	1	1.6
Overpressure [bar]	5	0.5	1	1	2	5	5	10
Burst pressure ≥ [bar]	7.5	1.5	1.5	1.5	3	7.5	7.5	15
Nominal pressure gauge / abs. [bar]	2,5	4	6	10	16	25	40	
Overpressure [bar]	10	20	40	40	80	80	105	
Burst pressure ≥ [bar]	15	25	50	50	120	120	210	
Vacuum resistance	P _N ≥ 1 bar: unlimited vacuum resistance P _N < 1 bar: on request							
¹ consider the pressure resistance of fitting and clamps								
Performance								
Accuracy ¹	standard: nominal pressure ≥ 0.4 bar : ≤ ± 0.125 % BFSL nominal pressure < 0.4 bar: ≤ ± 0.25 % BFSL							
Measuring rate	5/sec							
¹ accuracy according to IEC 60770 – 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 [% FSO]	≤ ± 0.75		≤ ± 1.5			≤ ± 0.75		
in compensated range [°C]	0 ... 70 °C		0 ... 50 °C			0 ... 70 °C		
Permissible temperatures								
Permissible temperatures ²	medium:		-40 ... 125 °C for filling fluid of silicon oil -10 ... 125 °C for filling fluid of food compatible oil					
	environment:		-20 ... 70 °C					
	storage:		-30 ... 80 °C					
² max. temperature of the medium for nominal pressure gauge > 0 bar: 150 °C for 60 minutes with a max. environmental temperature 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							
Pressure port	stainless steel 1.4404				other on request			
Display housing	PA 6.6, polycarbonate							
Seals (media wetted)	standard:		FKM					
	clamp and dairy pipe:		none					
Diaphragm	stainless steel 1.4435							
Media wetted parts	pressure port, seals, diaphragm							
Filling fluids	standard:		silicon oil					
	option:		food compatible oil with FDA-certificate (mobile DTE FM 32; class code: H1; NFS registration Nr.: 130662)					
			other on request					
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 (standard: the device is calibrated in a vertical position with the pressure connection down; other than the given position for P _N ≤ 2 bar have to be declared at ordering)							
Weight	min. 350 g (pendent on the pressure connection)							
AD-converter solution	14 Bit							
Operational life of battery	standby mode: approx. 5 years							
mech. operational life	> 100 x 10 ⁶ pressure cycles							
CE-conformity	EMV Directive: 2004/108/EG							

Dimensions (in mm)

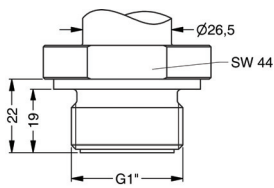
standard



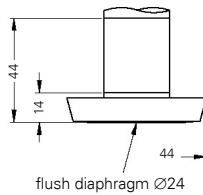
G1/2" flush
(DIN 3852) for $P_N \geq 1$ bar



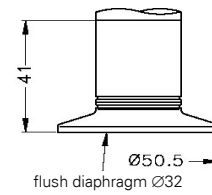
option



G1" flush
(DIN 3852)



dairy pipe DN25
(DIN11851)



clamp 1 1/2"
(ISO 2852)

Ordering code BAROLI 02P

BAROLI 02P

- - 0 - - 0 K 0 -

Pressure		M	0	G																		
	gauge	M	0	G																		
	absolute	M	0	H																		
Input																						
	[bar]																					
	0.10		1	0	0	0																
	0.16		1	6	0	0																
	0.25		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																
	-1 ... 0		X	1	0	2																
	customer		9	9	9	9														consult		
Accuracy																						
	[BFSL]																					
	standard for $P_N \geq 0,4$ bar																				B 2	
	standard for $P_N < 0,4$ bar																				B 5	
	customer																				9 9	
																					consult	
Mechanical connection																						
	G1/2" DIN 3852 with flush diaphragm ¹																				Z 0 0	
	G1" DIN 3852 with flush diaphragm																				Z 3 1	
	Clamp 1 1/2"																				C 6 2	
	Dairy pipe DN 25 (DIN 11851) ²																				M 7 3	
	customer																				9 9 9	
																					consult	
Seals																						
	for clamp or dairy pipe:																					0
	without																					1
	FKM																					9
	customer																					consult
Diaphragm																						
	Stainless steel 1.4435 (316L)																					1
	customer																					9
																						consult
Front foil																						
	standard																					1
	neutral																					N
	customer																					9
																						consult
Filling fluids																						
	Silicon oil																					1
	food compatible oil																					2
	customer																					9
																						consult
Special version																						
	standard																					0 0 0
	customer																					9 9 9
																						consult

¹ possible only for $P_N \geq 1$ bar
² cup nut for dairy pipe included and pre-assembled

Website

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