

SensaCo Ltd.



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













CE-conformity

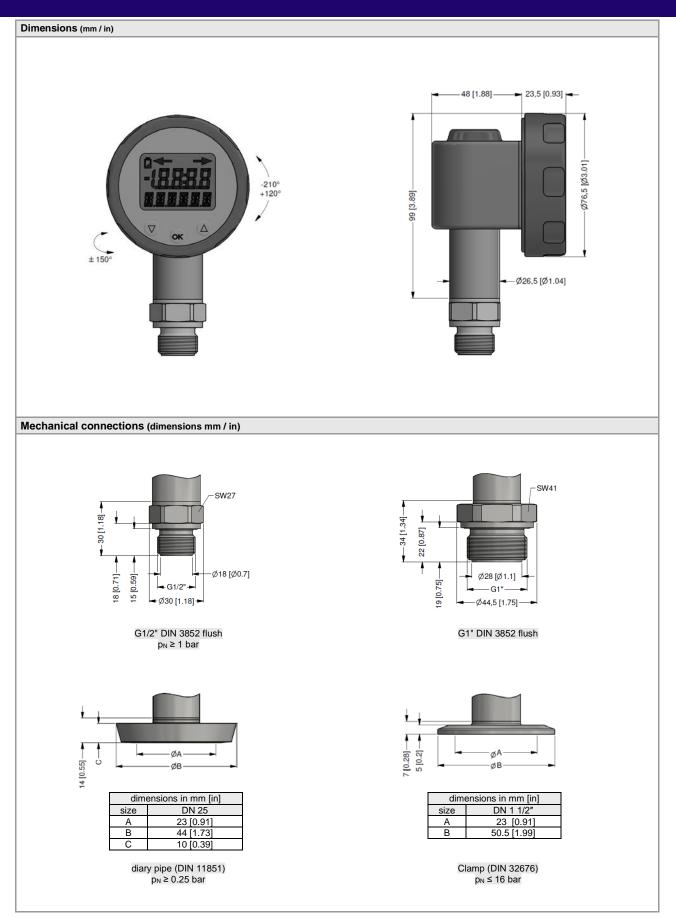
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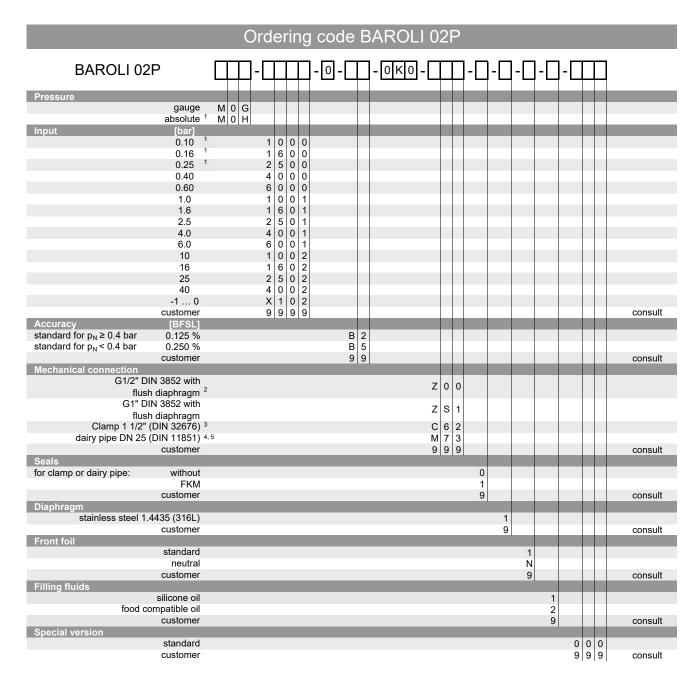
Input pressure ranges ¹										
Nominal pressure gauge	[bar]	-1 0	0.10	0.16	0.25	0.4	0 (0.60	1	1.6
Nominal pressure absolute	[bar]	-	-	-	-	0.4).60	1	1.6
Overpressure	[bar]	5	0.5	1	1	2		5	5	10
Burst pressure ≥	[bar]	7.5	1.5	1.5	1.5	.5 3		7.5	7.5	15
Nominal pressure			T							
gauge / absolute	[bar]	2.5	4	6	10		16		25	40
Overpressure	[bar]	10	20	40	4	10	80		80	105
Burst pressure ≥	[bar]	15	25		50 50		120		120	210
Vacuum resistance		p _N ≥ 1 bar: unlimited vacuum resistance								
¹ consider the pressure resistance	p _N < 1 bar: on request									
,	e or mang	y anu ciamps								
Performance										
Accuracy ²	nominal pressure ≥ 0.4 bar: ≤ ± 0.125 % BFSL									
Measuring rate		nominal pressure < 0.4 bar: ≤ ± 0.25 % BFSL 5/sec								
² accuracy according to IEC 607	70 – minii		ing (non-linear	rity, hysteresis,	repeatability)					
Thermal effects (offset and s			J ,	J, J	,					
Nominal pressure p _N	-1 0 < 0.40							≥ 0.40		
	[bar] % FSO]			≤ ± 1.5				≤ ± 0.75		
n compensated range [°C]		≤±0.75 ≤±1.5 070 °C 050 °C					0 70 °C			
Permissible temperatures										
Medium ³			f silicone oil:		_	125 °C				
Environment		filling fluid of food compatible oil: -10 125 °C								
Storage		-30 80 °C								
³ max temperature of the medium	for nom			150 °C for 60 n	ninutes with a r	max. env	ironmental t	empera	ture of 50 °C	
Mechanical stability										
Vibration		5 g RMS (25	5 2000 Hz	<u>'</u>)	acco	ording to	IEC 6006	8-2-6		
Shock		100 g / 1 ms		•			IEC 6006			
Materials / Filling fluids										
Housing			eel 1.4404 (3							
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								
		standard: FKM								
Seals (media wetted)		clamp and dairy pipe: none								
D'anhaana			-14 4405 (0	401)						
Diaphragm Media wetted parts		stainless steel 1.4435 (316 L)								
Filling fluids		pressure port, seals, diaphragm standard: silicone oil								
i iiii g iidido	option: food compatible oil with FDA-certificate									
		(mobile SHC Cibus 32; class code: H1; NFS registration no.: 141500)								
			other on req	luest						
Miscellaneous		FUEDO	f = 't '	h		20			Fig. 1.	_
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			· ·	40 x 30 mm		J 0	,			
. ,		4.5-digit 7-se	egment-displ	lay, digit heig	ht 11 mm, ra		ndication :	£19999	;	
				ional display,		7.5 mm				
Electromagnetic compatibility	<u>'</u>			according to I						
Supply				pieces (type	1/2 AA)					
Data storage		EEPROM (n	on-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				the pressure				9)		
AD-converter solution		14 Bit	pondent on t	ino pressure	0011116011011)					
Operational life of battery			de: approx. 5	5 Vears						
Mech. operational life		100 million l		years						
CE-conformity			0au cycles	/EII						

EMV Directive: 2014/30/EU



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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 $p_N \le 16$ bar

 $^{^4}$ possible only for $p_{N} \geq 0.25$ 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.