



BAROLI 05P

Battery Powered Digital Pressure Gauge

Stainless Steel Diaphragm Flush Welded

Nominal pressure

from 0 ... 60 bar up to 0 ... 400 bar

Product characteristics

- rotatable housing
- 2-line LC display
 4.5-digit 7-segment display
 6-digit 14-segment additional display
- for viscous and pasty media

Functions

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

The battery-powered digital pressure gauge BAROLI 05P with flush welded stainless steel diaphragm 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 05P display housing is rotatable, thus ensuring an easy reading even under unfavourable mounting conditions. Additional functions as changing unit, displaying min / max values, calibrating of offset and span, as well as configuring the automatic switching-off complete the profile.

Preferred areas of use are



Plant and Machine Engineering







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The company BD SENSORS s.r.o. is certified by Bureau Veritas Czech according to the standard ISO 9001.

Digital Pressure Gauge

Input pressure range Nominal pressure gauge / abs.							
	[hav]	00	400	400	050	400	
	[bar]	60	100	160	250	400	
Overpressure [[bar]	100	200	400	400	600	
Burst pressure ≥ [[bar]	120	250	500	500	650	
Performance							
Accuracy ¹		≤ ± 0.5 % span					
Measuring rate		5/sec					
accuracy according to EN IEC	62828	-2– (non-linearity, hysi	eresis, repeatability)				
Thermal effects (Offset an							
•) K				
In compensated range		0 70					
Permissible temperatures ²		medium: -40 125 °C for filling fluid silicon oil					
		-10 125 °C for filling fluid food compatible oil					
		environment: -20 70 °C					
		storage: -30 80 °C					
² max temperature of the mediu	um for n	ominal pressure gaug	e > 0 bar: 150 °C for (60 minutes with a max. en	vironmental temperati	ure of 50 °C	
Mechanical stability							
Vibration		5 g RMS (25 200	0 Hz) acco	rding to IEC 60068-2-6	;		
Shock		100 g / 1 msec		rding to IEC 60068-2-2			
Materials / Filling fluids		-		-			
Housing		stainless steel 1.44	04 (316L)				
Pressure port		stainless steel 1.44					
Display housing		PA 6.6, Polycarbor					
Seals (media wetted)		FKM					
Diaphragm		stainless steel 1.44	35 (316L)				
Vedia wetted parts		pressure port, seal	<u> </u>				
Filling fluids		standard: silicon o	pil				
C		option: food co	mpatible oil with 21	CFR178.3570 certifica	ite		
		(Mobil S	CH Cibus 32; Cate	egory Code: H1; NSF F	Registration No.: 14	1500)	
		others	on request				
Miscellaneous							
Display				, 4.5-digit 7-segment m		eight 11 mm, rang	
-				additional display, dig	t height 7.5 mm		
Electromagnetic compatibility		emission and immunity according to EN 61326					
Supply		3.6 V lithium battery; 2 piece (1/2 AA)					
Data storage		EEPROM (non-vola	atile)				
Ingress protection		IP 65					
Installation position		any (standard calibrating in a vertical position with the pressure connection down)					
Weight		min. 350 g (depending on pressure port) 14 Bit					
AD-converter solution			Prov. E.vooro				
		Standby-Modus: ap					
Operational life of battery		100 million load av					
Operational life of battery Mechanical operational life		100 million load cyc	les		nt directive: 2014/	69/ELL (Madula A)	
Operational life of battery Mechanical operational life CE-conformity		EMC directive: 201	cles 4/30/EU		ent directive: 2014/	68/EU (Module A)	
Operational life of battery Mechanical operational life CE-conformity ³ This directive is only valid for		EMC directive: 201	cles 4/30/EU		ent directive: 2014/	68/EU (Module A)	
Operational life of battery Mechanical operational life CE-conformity ³ This directive is only valid for Dimensions (in mm)		EMC directive: 201	cles 4/30/EU		ent directive: 2014/	68/EU (Module A)	

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BAROLI_05P_EN_10.05.2022



	Ordering code BAROLI 05P
23.08.2024 BAROLI 05P	
Pressure	
Gauge	M 0 5 M 0 6
Absolute	M 0 6
Input [bar]	
060	
0 100	
0160	1 6 0 3 2 5 0 3
0250	
0 400	4 0 0 3
Customer	9 9 9 9
Accuracy	
0,5 %	5
Customer	9
Mechanical connection	
G 1/2" DIN with flush welded diaphragm (only for $P_N \ge 1$ bar)	Z 0 0 Z 3 1
G 1" DIN 3852 with flush welded diaphragm	Z 3 1 9 9 9
Customer	9 9 9
Seals	
FKM	1
Customer	9
Diaphragm	
Stainless steel 1.4435 (316 L)	1
Customer	9
Front foil	
Standard (design BD SENSORS)	1
Neutral	N
Customer	9 9
Filling fluids	
Silicone oil	1
Food compatible oil	2
Customer	9
Special version	
Standard	0 0 0
Customer	9 9 9
Accessories	
Battery (2 pcs needed)	1000377

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 DS BD SENSORS reserves the right to change sensor specifications without further notice.



