



# **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

Food Industry





BD SENSORS s.r.o. Hradišťská 817 CZ – 687 08 Buchlovice

Tel.: +420 572 411 011

www.bdsensors.cz info@bdsensors.cz



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

Input pressure range									
[bar]	60	100	160	250	400				
gauge / abs. [bar]									
Overpressure [bar]	100	200	400	400	600				
Burst pressure ≥ [bar]	120	250	500	500	650				
Performance									
Accuracy <sup>1</sup>	≤ ± 0.5 % span								
Measuring rate	5/sec								
<sup>1</sup> accuracy according to EN IEC 6282	28-2– (non-linearity, hyste	eresis, repeatability)							
Thermal effects (Offset and Sp	ban)								
Tolerance band [% span]	≤ ± 0.2 % span / 10	) K							
n compensated range [°C]	070								
Permissible temperatures <sup>2</sup>	medium:								
			°C for filling fluid food	l compatible oil					
	environment:	-20 70 °							
	storage:	-30 80 °							
<sup>2</sup> max temperature of the medium for	r nominal pressure gauge	e > 0 bar: 150 °C for 6	60 minutes with a max. er	nvironmental temperatur	re of 50 °C				
Mechanical stability									
Vibration	5 g RMS (25 200		rding to IEC 60068-2-						
Shock	100 g / 1 msec	acco	rding to IEC 60068-2-2	27					
Materials / Filling fluids									
Housing	stainless steel 1.44	04 (316L)							
Pressure port	stainless steel 1.44	35 (316L)							
Display housing	PA 6.6, Polycarbon	ate							
Seals (media wetted)	FKM								
Diaphragm	stainless steel 1.44								
Media wetted parts	pressure port, seals								
Filling fluids	standard: silicon o								
			CFR178.3570 certific		500)				
	· · · ·		gory Code: H1; NSF I	Registration No.: 141	500)				
Miscellaneous	Others t	on request							
Display		rango 40 x 30 mm	4.5-digit 7-segment r	nain display, digit boi	aht 11 mm rango				
Display					ignit i i nini, range				
	indication ±19999; 6-digit 14-segment additional display, digit height 7.5 mm emission and immunity according to EN 61326								
Electromagnetic compatibility	emission and immu	nity according to F	N 61326						
Electromagnetic compatibility			N 61326						
Supply	3.6 V lithium battery	/; 2 piece (1/2 AA)	N 61326						
Supply Data storage	3.6 V lithium battery EEPROM (non-vola	/; 2 piece (1/2 AA)	N 61326						
Supply Data storage Ingress protection	3.6 V lithium battery EEPROM (non-vola IP 65	/; 2 piece (1/2 AA) itile)		ure connection down	)				
Supply Data storage	3.6 V lithium battery EEPROM (non-vola IP 65 any (standard calib	r; 2 piece (1/2 AA) itile) rating in a vertical p	position with the press	ure connection down	)				
Supply Data storage Ingress protection Installation position	3.6 V lithium battery EEPROM (non-vola IP 65	r; 2 piece (1/2 AA) itile) rating in a vertical p	position with the press	ure connection down	)				
Supply Data storage Ingress protection Installation position Weight	3.6 V lithium battery EEPROM (non-vola IP 65 any (standard calibu min. 350 g (depend	r; 2 piece (1/2 AA) itile) rating in a vertical p ing on pressure po	position with the press	ure connection down	)				
Supply Data storage Ingress protection Installation position Weight AD-converter solution	3.6 V lithium battery EEPROM (non-vola IP 65 any (standard calibo min. 350 g (depend 14 Bit	r; 2 piece (1/2 AA) itile) rating in a vertical p ing on pressure po prox. 5 years	position with the press	ure connection down	)				
Supply Data storage Ingress protection Installation position Weight AD-converter solution Operational life of battery	3.6 V lithium battery EEPROM (non-vola IP 65 any (standard calibo min. 350 g (depend 14 Bit Standby-Modus: ap	r; 2 piece (1/2 AA) title) rating in a vertical p ing on pressure po prox. 5 years cles	position with the press rt)	ure connection down					
Supply Data storage Ingress protection Installation position Weight AD-converter solution Operational life of battery Mechanical operational life	3.6 V lithium battery EEPROM (non-vola IP 65 any (standard calibu min. 350 g (depend 14 Bit Standby-Modus: ap 100 million load cyc EMC directive: 2014	r; 2 piece (1/2 AA) title) rating in a vertical p ing on pressure po prox. 5 years les 4/30/EU	position with the press rt) pressure equipm						

www.bdsensors.cz info@bdsensors.cz G1/2" flush (DIN 3852)



G1" flush (DIN 3852)

BAROLI\_05P\_EN\_10.05.2022



	Orc	lering code BARC	DLI 05P			
21.7.2022	BAROLI 05P		- 0 - 🗌 - 0 к 0 -		]-[]-[]	-
Pressure						
Gauge		M 0 5				
Absolute		M 0 6				
Input [bar]						
0 60		6 0 0 2				
0 100		1 0 0 3				
0 160		1 6 0 3				
0 250		2 5 0 3				
0 400		4 0 0 3				
Customer		9 9 9 9				
Accuracy						
0,5 %			5			
Customer			9			
Mechanical connect						
	welded diaphragm (only for $P_N \ge 1$ bar)			Z 0 0 Z 3 1		
G 1" DIN 3852 with fl	ush welded diaphragm			Z 3 1		
Customer				999		
Seals						
FKM				1		
Customer				9		
Diaphragm						
Stainless steel 1.443	5 (316 L)				1	
Customer					9	
Front foil						
Standard (design BD	SENSORS)				1	
Neutral					N	
Customer					9	
Filling fluids Silicone oil				_	1	
Food compatible oil					2	
Customer					9	
Special version						
Standard						0 0 0
Customer						999
Accessories						
Battery (2 pcs neede	d)					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 data sheet. BD SENSORS reserves the right to change sensor specifications without further notice.



