



# **BAROLI 05P**

## **Battery Powered Digital Pressure Gauge**

Stainless Steel Diaphragm Flush Welded

class 0.2

#### **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 is suitable for pressure measurement in viscous and pasty media where a dead spacefree process connection is required. 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







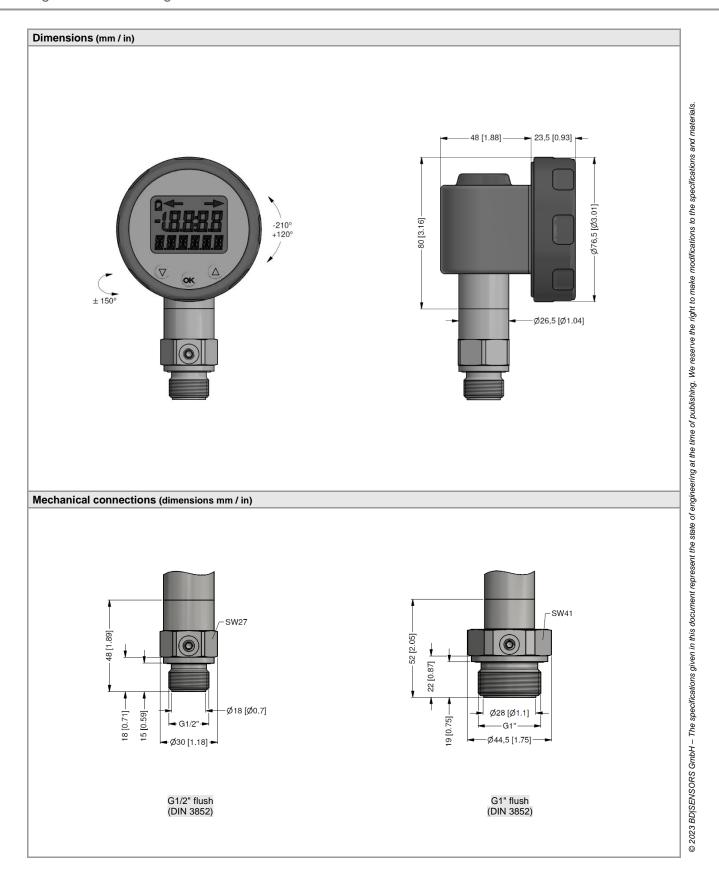


Digital Pressure Gauge

Input pressure range						
Nominal pressure gauge / absolute	[bar]	60	100	160	250	400
Overpressure	[bar]	100	200	400	400	600
Burst pressure ≥	[bar]	120	250	500	500	650

Performance					
Accuracy <sup>1</sup>	≤ ± 0.25 % FSO BFSL				
Measuring rate	5/sec				
<sup>1</sup> accuracy according to IEC 60770 -	- minimum value setting (non-linearity, hys	steresis, repeatability)			
Thermal effects (offset and sp					
Tolerance band	≤±0.2% FSO / 10 K				
in compensated range	0 70 °C				
Permissible temperatures					
Medium <sup>2</sup>	for filling fluid silicon oil : for filling fluid food compatible oil:	-40 125 °C -10 125 °C			
Environment	-20 70 °C				
Storage	-30 80 °C				
<sup>2</sup> max temperature of the medium for	r 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			
Filling fluids					
Standard	silicone oil				
Options	food compatible oil with FDA approval (Mobil SCH Cibus 32; Category Code: H1; NSF Registration No.: 141500) others on request				
Materials	others on request				
Pressure port / housing	stainless steel 1 4404 (316L)				
Display housing	stainless steel 1.4404 (316L)				
Seals (media wetted)	PA 6.6, Polycarbonate FKM				
· ,					
Diaphragm Media wetted parts	stainless steel 1.4435 (316L)				
Miscellaneous	pressure port, seals, diaphragm				
	LO Biarday visible ray or 40 y 00				
Display	LC-Display, visible range 40 x 30 mm  4.5-digit 7-segment main display, digit height 11 mm, range of indication ±1999  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 (1/2 AA)				
Data storage	EEPROM (non-volatile)				
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)				
AD-converter solution	14 bit				
Operational life of battery	standby mode: approx. 5 years				
Mechanical operational life	100 million load cycles				
CE-conformity	EMC directive: pressure equipment directive:	2014/30/EU 2014/68/EU (module A) <sup>3</sup>			
	res with maximum permissible overpressu	, ,			

### Digital Pressure Gauge



BD SENSORS
pressure measurement

BAROLI 05P\_E\_110123

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#### Ordering code BAROLI 05P **BAROLI 05P** 0 K 0 -Pressure M 0 5 M 0 6 gauge absolute consult Input 6 0 0 2 1 0 0 3 1 6 0 3 2 5 0 3 4 0 0 3 9 9 9 9 60 100 160 250 400 customer consult [BFSL] B 5 9 9 0.25 % customer consult Mechanical connection G1/2" with flush Z 0 0 welded diaphragm (DIN 3852) G1" with flush welded diaphragm (DIN 3852) Z S 1 9 9 9 customer consult Seals $\mathsf{FKM}$ 9 customer consult Diaphragm stainless steel 1.4435 (316L) customer consult Front foil standard 1 neutral Ν customer 9 consult Filling fluids silicone oil food compatible oil 2 on: | Solution | Properties | customer 9 consult Special version 0 0 0 9 9 9 standard consult customer

modifications to the specifications and materials

right to make