



# **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 enables a local displaying of values 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



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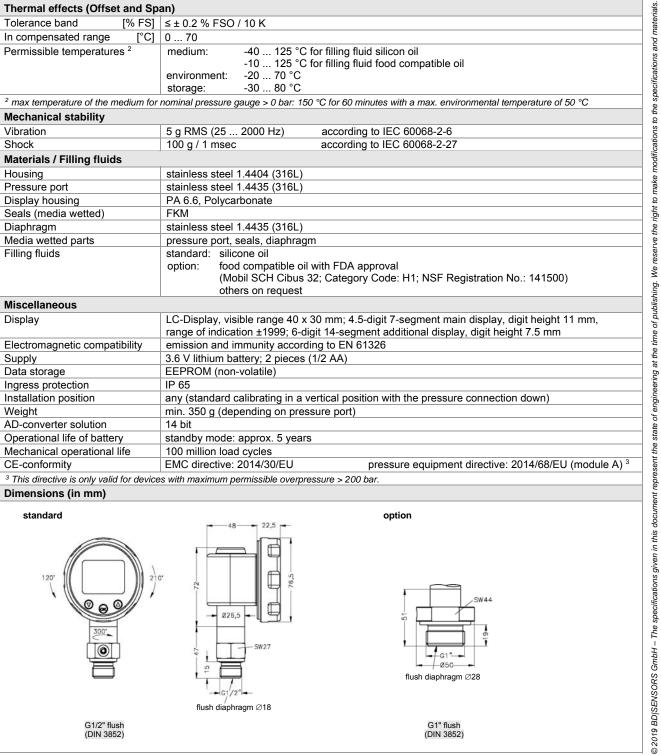


# Digital Pressure Gauge

Input pressure range						
Nominal pressure						
gauge / abs.	[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 IE	C 60770 –	minimum value setting (non-linearity, hysteresis, repeatability)				
Thermal effects (Offs	et and Sp	an)				
Tolerance band		≤±0.2 % FSO / 10 K				
In compensated range						
Permissible temperatures <sup>2</sup>		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				
<sup>2</sup> max temperature of the	medium for	nominal pressure gauge	e > 0 bar: 150 °C for 60	minutes with a max. er	vironmental temperatur	e of 50 °C
Mechanical stability						
Vibration		5 g RMS (25 200	00 Hz) accord	ling to IEC 60068-2-6	3	
Shock		100 g / 1 msec according to IEC 60068-2-27				
Materials / Filling fluid	ds					
Housing		stainless steel 1.4404 (316L)				
Pressure port		stainless steel 1.4435 (316L)				
Display housing		PA 6.6, Polycarbonate				
Seals (media wetted)		FKM				
Diaphragm		stainless steel 1.4435 (316L)				
Media wetted parts		pressure port, seals, diaphragm				
Filling fluids		standard: silicone oil option: food compatible oil with FDA approval (Mobil SCH Cibus 32; Category Code: H1; NSF Registration No.: 141500) others on request				
Miscellaneous						
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: 2014/30/EU pressure equipment directive: 2014/68/EU (module A) <sup>3</sup>				

<sup>3</sup> This directive is only valid for devices with maximum permissible overpressure > 200 bar.

## Dimensions (in mm)



BAROLI 05P\_E\_010919 pressure measurement

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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) 3 Ζ 1 9 9 9 customer consult Seals $\mathsf{FKM}$ customer 9 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 customer 9 Special version 0 0 0 9 9 9 standard customer consult

on Its and the state of engineering at the time of publishing. We reserve the right to make

modifications to the specifications and materials.