



# **BAROLI 02P**

## **Battery Powered** Digital Pressure Gauge

Stainless Steel Diaphragm Flush Welded

#### **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 on hygienic process connections and easy cleaning or sterilisability 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 unfavorable 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



















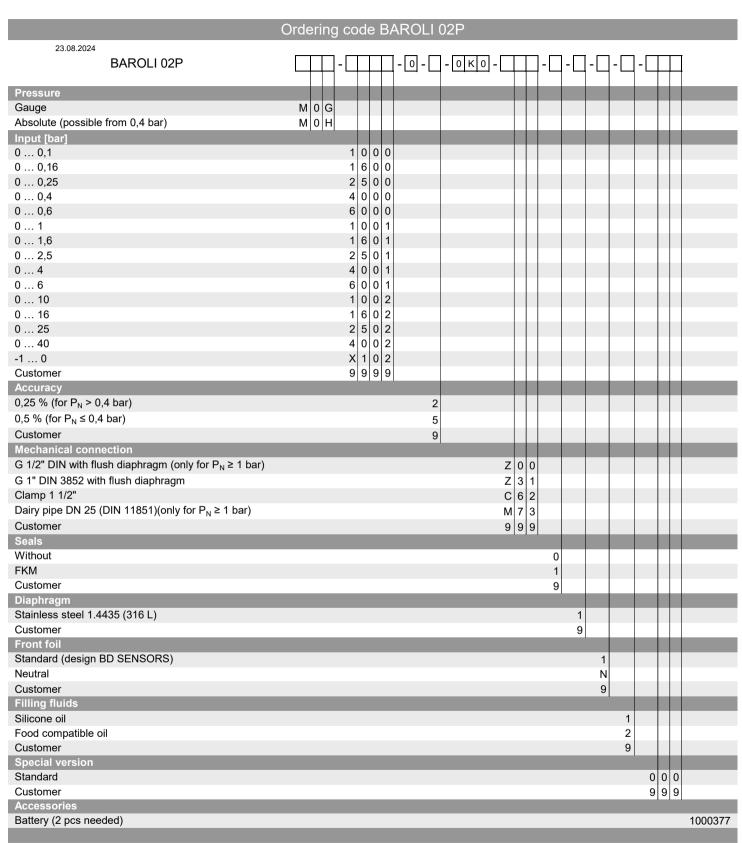
### Digital Pressure Gauge

Input pressure ranges 1									
Nominal pressure gauge	[bar]	-1 0	0.10	0.16	0.25	0.40	0.60	1	1.6
Nominal pressure, abs.	[bar]	-	-	-	-	0.40	0.60	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	3	7.5	7.5	15

Nominal pressure gauge / abs.	[bar]	2,5	4	6	10	16	25	40
Overpressure	[bar]	10	20	40	40	80	80	105
Burst pressure ≥	[bar]	15	25	50	50	120	120	210
Vacuum resistance P <sub>N</sub> ≥ 1 bar: unlimited vacuum resistance								
		$P_N < 1$ bar: on $I$	request					
<sup>1</sup> consider the pressure res	istance of t	itting and clamps						

Performance								
Accuracy <sup>2</sup>		standard: nominal pressure ≥ 0.4 bar : ≤ ± 0.25 % nominal pressure < 0.4 bar: ≤ ± 0.5 %						
Measuring rate		5/sec						
<sup>2</sup> accuracy according to EN	IEC 62828	3-2– minimum value setting (non-	-linearity, hyster	esis, repeatability)				
Thermal effects (Offset	and Spa	ın)						
Nominal pressure P <sub>N</sub>	[bar]	-1 0		< 0.40 ≥ 0.				
	% span]	≤ ± 0.75		≤ ± 1.5	≤ ± 0.75			
compensated range [°C]		0 70 °C		0 50 °C	0 70 °C			
Permissible temperatur								
remissible temperatures		medium: -40 125 °C for filling fluid of silicon oil						
Permissible temperatures <sup>3</sup>		-10 125 °C for filling fluid of food compatible oil environment: -20 70 °C storage: -30 80 °C						
3 max temperature of the me	edium for n			inutes with a max. environmental	temperature of 50 °C			
Mechanical stability					,			
Vibration		5 g RMS (25 2000 Hz)	acc	ording to IEC 60068-2-6				
Shock		100 g / 1 msec						
Materials / Filling fluids	3		400					
Housing		stainless steel 1.4404						
Pressure port		stainless steel 1.4404 other on request						
Display housing		PA 6.6, polycarbonate						
Seals (media wetted)		standard: FKM clamp and dairy pipe: none						
Diaphragm		stainless steel 1.4435						
Media wetted parts		pressure port, seals, diaphragm						
Filling fluids		standard: silicon oil option: food compatible oil with FDA-certificate (mobile SHC Cibus 32; class code: H1; NFS registration Nr.: 141500) other on request						
Miscellaneous								
Display		LC display, visible range 40 x 30 mm; 4.5-digit 7-segment-display, digit height 11 mm, range of indication ±19999; 6-digit 14-segment additional display, digit height 7.5 mm						
EHEDG certificate Type Class I	EL	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						
Electromagnetic compatibility		emission and immunity according to EN 61326						
Supply		3.6 V Lithium battery; 2 pieces (type 1/2 AA)						
Data storage		EEPROM (non-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		min. 350 g (pendent on the pressure connection)						
AD-converter solution		14 Bit						
Operational life of battery	у	standby mode: approx. 5 ye	ears					
mech. operational life		100 million pressure cycles						
CE-conformity		EMV Directive: 2014/30/EU						





0,-...without additional charge

On request...in accordance with the producer

Surcharges for calibration are not subject to any discounts. Subject to change.



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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.

cup nut for dairy pipe included and pre-assembled





