



BAROLI OSP

Battery Powered Digital Pressure Gauge

Stainless Steel Diaphragm Flush Welded

class 0.25

Digital Pressure Gauge

BAROLI OSP

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 OSP* 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 sterility are requested. The filling medium is food compatible oil with FDA approval.

The *BAROLI OSP* display housing is rotatable, thus ensuring an easy reading even under unfavorable 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

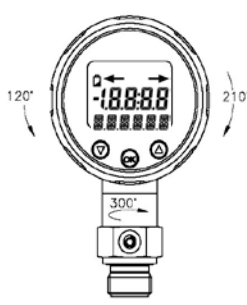
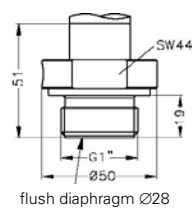
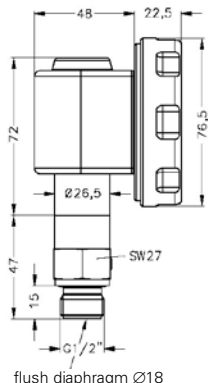
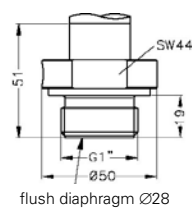


Plant and Machine Engineering



Food Industry

CE

Input pressure range					
Nominal pressure gauge / abs. [bar]	60	100	160	250	400
Overpressure [bar]	100	200	400	400	600
Burst pressure \geq [bar]	120	250	500	500	650
Performance					
Accuracy ¹	$\leq \pm 0.25$ % FSO BFSL				
Measuring rate	5/sec				
¹ accuracy according to IEC 60770 – limit point adjustment (non-linearity, hysteresis, repeatability)					
Thermal effects (Offset and Span)					
Tolerance band [% FS]	$\leq \pm 0.2$ % FSO / 10 K				
In compensated range [°C]	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 medium for nominal pressure gauge > 0 bar: 150 °C for 30 minutes with a max. environmental temperature of 50 °C for vacuum and nominal pressure abs. the max. medium temperature is 70 °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			
Materials / Filling fluids					
Housing / Pressure port	stainless steel 1.4404 (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: silicon oil option: food compatible oil with FDA approval (Mobil DTE FM 32; Category Code: H1; NSF Registration No.: 130662) 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 ± 19999 ; 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 piece (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-Modus: approx. 5 years				
Mechanical operational life	> 100 x 10 ⁶ pressure cycles				
CE-conformity	EMC directive: 2004/108/EC		pressure equipment directive: 97/23/EC (Modul A) ³		
³ This directive is only valid for devices with maximum permissible overpressure > 200 bar.					
Dimensions (in mm)					
standard 			option 		
					
G1/2" flush (DIN 3852)			G1" flush (DIN 3852)		

This data sheet contains product specification, properties are not guaranteed. Subject to change without notice.

