



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 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 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





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 1		≤ ± 0.25 % F	SO BFSL				
Measuring rate		5/sec					
¹ accuracy according to IE	EC 60770 – I	limit point adjus	tment (non-lineari	ty, hysteresis, repea	ntability)		
Thermal effects (Offs	et and Sp	an)					
Tolerance band	[% FS]	≤ ± 0.2 % FS	SO / 10 K				
In compensated range [°C]							
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 pressu	re gauge > 0 bar:	150 °C for 60 minut	es with a max. environm	ental temperature of 50 °C	
Mechanical stability							
Vibration		5 g RMS (25	5 2000 Hz)	according to	IEC 60068-2-6		
Shock		100 g / 1 ms			IEC 60068-2-27		
Materials / Filling flui	ds						
Housing / Pressure po		stainless ste	el 1.4404 (316L	_)			
Display housing		PA 6.6, Poly		- /			
Seals (media wetted)		FKM					
Diaphragm			el 1.4435 (316l	_)			
Media wetted parts		pressure port, seals, diaphragm					
Filling fluids		standard: silicon oil					
· ·		option: food compatible oil with FDA approval					
				32; Category Cod	e: H1; NSF Registrati	ion No.: 130662)	
		others on re	quest				
Miscellaneous							
Display					git 7-segment main di nal display, digit heig	splay, digit height 11 mm, range ht 7.5 mm	
Electromagnetic compatibility	npatibility 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 batt		Standby-Mo	dus: approx. 5 y	/ears			
Mechanical operationa	al life		pressure cycles				
CE-conformity			/e: 2004/108/EC			directive: 97/23/EC (Modul A) ³	
³ This directive is only val	lid for device	s with maximun	n permissible ove	rpressure > 200 bar			
Dimensions (in mm)							
standard					option		
120'	270	72	22,5 			₩44 •	
		1	/, , ,				
			aphragm Ø18		flush diaphragm Ø28	8	



G1" flush (DIN 3852)

G1/2" flush (DIN 3852)



	Ordering code BARC	LI 05P	
BAROLI 05P		10-	
Pressure			
gauge absolute	M 0 5 M 0 6		consult
Input [bar] 60			
100	1 0 0 3		
160 250	1 6 0 3 2 5 0 3 4 0 0 3 9 9 9 9		
400 customer	4 0 0 3 9 9 9		consult
Accuracy [BFSL] 0.25 %			
customer	B 5 9 9		consult
Mechanical connection G1/2" with flush		Z 0 0	
welded diaphragm (DIN 3852) G1" with flush		Z 3 1	
welded diaphragm (DIN 3852) customer		9 9 9	consult
Seals FKM		1	
customer		9	consult
Diaphragm Stainless steel 1.4435 (316L)		1	
customer Front foil		9	consult
standard neutral		1 N	
customer Filling fluids		9	consult
Silicon oil		1	
food compatible oil customer		2 9	
Special version standard		0 0	0
customer		0 0 9 9	9 consult
			consult consult consult consult consult output description output output description output description

