



## **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





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### Digital Pressure Gauge

Input pressure range	•					
Nominal pressure	[bar]	60	100	160	250	400
gauge / abs.						
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				
accuracy according to II	EC 60770 –	minimum value s	setting (non-line	arity, hysteresis, repe	atability)	
Thermal effects (Offs	set and Sp	an)				
Tolerance band	[% FS]	≤ ± 0.2 % FS	O / 10 K			
n compensated range	[°C]	0 70				
Permissible temperatu	ıres <sup>2</sup>	medium:			filling fluid silicon oi	
					filling fluid food com	npatible oil
		environment	:	-20 70 °C		
2		storage:		-30 80 °C		
	medium for	nominal pressur	e gauge > 0 bar	r: 150 °C for 60 minut	es with a max. environ	mental temperature of 50 °C
Mechanical stability						
Vibration		5 g RMS (25		according to	IEC 60068-2-6	
Shock		100 g / 1 ms	ec	according to	IEC 60068-2-27	
Materials / Filling flui						
Housing / Pressure po	ort		el 1.4404 (316	SL)		
Display housing		PA 6.6, Poly	carbonate			
Seals (media wetted)		FKM				
Diaphragm			el 1.4435 (316			
Media wetted parts			t, seals, diaph	iragm		
Filling fluids		standard: si		e oil with FDA appr	roval	
						stration No.: 141500)
		others on re		ous oz, outogory o	ouc. III, Itol Rogi	51141011110 141000)
Miscellaneous						
Display		LC-Display,	visible range 4	10 x 30 mm; 4.5-dio	git 7-segment main	display, digit height 11 mm, range
					al display, digit heig	
Electromagnetic		emission and	d immunity acc	cording to EN 6132	26	
compatibility						
Supply			battery; 2 pied	ce (1/2 AA)		
Data storage		EEPROM (no	on-volatile)			
Ingress protection		IP 65	at a a 19 h a a 19 h a a 15		20. 0	
Installation position					with the pressure of	connection down)
Weight		14 Bit	epending on p	pressure port)		
AD-converter solution Operational life of batt	erv		dus: approx. 5	vears		
Mechanical operational			ressure cycle			
CE-conformity	ai III C		e: 2004/108/E		nressure equinmen	nt directive: 97/23/EC (Modul A) 3
<sup>3</sup> This directive is only va	lid for device					s sours. srizores (Modul A)
Dimensions (in mm)	na ioi uevice	wiiii iiiaXiiiiUII	Perringoinie OVE	orpressure > 200 Dar.		
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	⋽	, ₽	$\Rightarrow$		1 4	Ţ
	_	1	//2"		- G1" Ø50	
		— <b>→</b> G	1/2"H=-		flush diaphragm 2	228
	G1/2	flush dia <b>' flush</b>	phragm Ø18		G1" flush	
		3852)			(DIN 3852)	



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BAROLI 05P		)- <u> </u> -oko		-□-□	-	
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absolute put [bar]						consult
60 100	6 0 0 2 1 0 0 3 1 6 0 3 2 5 0 3 4 0 0 3 9 9 9 9					
160 250	1 6 0 3 2 5 0 3					
400 customer	4 0 0 3 9 9 9 9					consult
0.25 %		B 5 9 9				
customer echanical connection G1/2" with flush	_	9 9				consult
welded diaphragm (DIN 3852) G1" with flush			Z 0 0			
welded diaphragm (DIN 3852) customer			Z 3 1 9 9 9			consult
eals FKM			1			Corrodit
customer			9			consult
Stainless steel 1.4435 (316L) customer				1 9		consult
ont foil standard				1		
neutral customer				N 9		consult
Silicon oil				1		
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