

IMPRESS

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Pressure - Temperature - Level - Distance - Control - Indication - Data logging



BAROLI 02

Battery Powered Digital Pressure Gauge

Stainless Steel Diaphragm

class 0.1

Product characteristics

- ▶ nominal pressure ranges from 0 ... 100 mbar up to 0 ... 600 bar
- ▶ rotatable housing
- ▶ 2-line LC display
4.5-digit 7-segment display
6-digit 14-segment additional display
- ▶ different mechanical connections: inch, NPT threads

Functions

- ▶ min / max function with reset function
- ▶ offset and end point calibration
- ▶ setting the pressure unit (bar, mbar, psi, InHg, cmHg, mmHg, hPa, kPa, MPa, mH₂O)
- ▶ switch-off automatic

The battery-powered digital pressure gauge *BAROLI 02* enables a local displaying of values, satisfying the highest demands for accuracy and long-term stability.

The pressure gauge may be applied in all media compatible with the stainless steel used; it shows an excellent robustness and a high overpressure protection.

The *BAROLI 02* display housing is rotatable, thus ensuring an easy reading even under unfavorable mounting conditions.

Additional functions as switching the unit, displaying min / max values, calibrating the offset and the span, as well as configuring the automatic switching-off complete the profile.

Preferred areas of use are



Plant and Machine Engineering
Pneumatics / Hydraulics
Measurement Technology
Calibration and Test Purposes



Laboratory Techniques



Environmental Engineering

Digital Pressure Gauge

BAROLI 02

CE

Visit the website: www.impress-sensors.co.uk

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Input pressure ranges											
Nominal pressure gauge / abs. [bar]		0.10	0.16	0.25	0.40	0.60	1	1.6	2.5	4	6
Overpressure [bar]		1	1	1	1	3	3	6	10	10	20
Burst pressure [bar]		1.5	1.5	1.5	1.5	5	5	10	15	15	35
Nominal pressure gauge / abs. [bar]		10	16	25	40	60	100	160	250	400	600
Overpressure [bar]		60	60	60	100	210	210	550	900	900	1100
Burst pressure [bar]		100	100	100	175	350	350	600	1000	1000	1200
Low pressure		-1 ... 0 bar, overpressure: 3 bar, burst pressure: 5 bar other low pressure ranges on request									

Performance	
Accuracy ¹	≤ ± 0.125 % FSO BFSL
Measuring rate	5/sec
Long term stability	≤ ± 0.1 % FSO / year

¹ accuracy according to IEC 60770 – limit point adjustment (non-linearity, hysteresis, repeatability)

Thermal effects (Offset and Span)			
Nominal pressure P _N [bar]		-1 ... 0	≤ 0.40
Tolerance band [% FS]		≤ ± 0.75	≤ ± 1
in compensated range [°C]			0 ... 70

Permissible temperatures			
Permissible temperatures	medium: -20 ... 85 °C	environment: -20 ... 70 °C	storage: -30 ... 80 °C

Mechanical stability	
Vibration	5 g RMS (25 ... 2000 Hz) according to DIN EN 60068-2-6
Shock	100 g / 1 msec according to DIN EN 60068-2-27

Materials	
Pressure port / Housing	stainless steel 1.4404 (316 L)
Display housing	PA 6.6, polycarbonate
Seals (media wetted)	FKM
Diaphragm	stainless steel 1.4435 (316 L)
Media wetted parts	pressure port, seals, diaphragm

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
Electromagnetic compatibility	emission and immunity according to EN 61326
Supply	3.6 V Lithium battery; 2 piece (type 1/2 AA)
Data storage	EEPROM (non-volatile)
Ingress protection	IP 65
Installation position	any ²
Weight	approx. 300 g
AD-converter solution	14 Bit
Operational life of battery	standby mode: approx. 5 years
mech. operational life	> 100 x 10 ⁶ pressure cycles
CE-conformity	EMC Directive: 2004/108/EG Pressure Equipment Directive: 97/23/EG (Modul A) ³

² The digital pressure gauge is calibrated in a vertical position with the pressure connection down. If this position is changed on installation there can be slight deviations in the zero point for devices with stainless steel sensor and pressure range P_N ≤ 1 bar.

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

Dimensions (in mm)	

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