LIM-BAROLI

Battery Powered Digital Pressure Gauge

Stainless Steel Sensor

Nominal pressure

from 0 ... 100 mbar up to 0 ... 600 bar

Special characteristics

- rotatable housing
- 2-line LC display
 4.5-digit 7-segment display
 6-digit 14-segment additional display

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, InH₂O)
- ▶ switch-off automatic

The battery-powered digital pressure gauge LIM-BAROLI 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 LIM-BAROLI display housing is rotatable, thus ensuring an easy reading even under unfavorable mounting conditions.

Additional functions:

changing the unit, displaying min / max values, calibrating of offset and the span, configuring the automatic switching-off

Preferred areas of use are



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



Laboratory Techniques



Environmental Engineering (water – sewage – recycling)





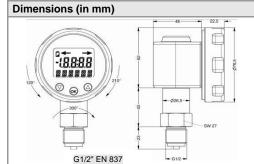


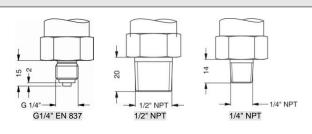
Digital Pressure Gauge

Input pressure ranges											
Nominal pressure gauge	[bar]	0.10	0.16	0.25	0.40	0.60	1	1.6	2.5	4	6
Nominal pressure abs.	[bar]	-	-	-	0.40	0.60	1	1.6	2.5	4	6
Overpressure	[bar]	0.5	1	1	2	5	5	10	10	20	40
Burst pressure	[bar]	1.5	1.5	1.5	3	7.5	7.5	15	15	25	50
Nominal pressure gauge / abs.	[bar]	10	16	25	40	60	100	160	250	400	600
Overpressure	[bar]	40	80	80	105	210	210	600	1050	1050	1250
Burst pressure	[bar]	50	120	120	210	420	420	1000	1250	1250	1250
Vacuum pressure		-1 0 bar, overpressure: 5 bar, burst pressure: 7.5 bar other vacuum ranges on request									
Vacuum resistance		P _N ≥ 1 bar: unlimited vacuum resistance									
		P _N < 1 bar: on request									

Performance									
A1	nominal pressure ≥ 0.4 bar: ≤ ± 0.25 % span								
Accuracy 1	nominal pressure: < 0.4 bar: ≤ ± 0.5 % span								
Measuring rate	5/sec								
Long term stability	≤ ± 0.1 % span / year								
¹ accuracy according to EN IEC 62	828-2– minimum value setting (non-line	earity, hysteresis, repeatability)							
Thermal effects (Offset and	Span)								
Nominal pressure P _N [ba	- 1	≤ 0.40	> 0.40						
Tolerance band [% spar	n] ≤ ± 0.75	≤ ± 1	≤ ± 0.75						
in compensated range [°C	-20 85 °C	0 70 °C	-20 85 °C						
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 cation ±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	approx. 300 g							
AD-converter solution	14 Bit	14 Bit							
Operational life of battery	standby mode: approx. 5 years								
mech. operational life	100 million load cycles								
CE-conformity	EMC Directive: 2014/30/EU Pressure Equipment Directive: 2014/68/EU (Module 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.





 \Rightarrow for nominal pressure $\,$ PN > 60 bar increases the length of devices by 9 mm!