DM 17

Battery Powered Digital Pressure Gauge

stainless steel sensor, welded

class 1



Nominal pressure

from 0 … 6 bar up to 0 … 600 bar

Special characteristics

- rotatable housing and display
- LC display
  4.5-digit 7-segment display
- standard battery CR 2450
  operation period > 1 500 h

Functions

- min / max function with reset function
- auto-zero
- setting of pressure unit
  (bar, mbar, psi, MPa, mH_2O)
- configuration of automatic switch-off

Option

- oil and grease free version
  for oxygen application

The compact digital pressure gauge DM 17 is characterized by its long-lasting battery supply as well as its adjustable housing. Thus, the DM 17 is ideal for mobile pressure monitoring. An unusual feature of the DM 17 is the welded pressure sensor. An absolute use in oxygen applications is given and strictest requirements on the particle liberty are fulfilled.

The 4.5-digit LC-display indicates the battery status, the measurement value as well as the unit; this enables a fast and precise reading.

Additional functions like setting of pressure unit, auto-zero, min / max values and an automatic switching-off function.

Preferred areas of use are

Mobile pressure monitoring
Plant and machine engineering
Pneumatics / hydraulics

O_2 Oxygen application

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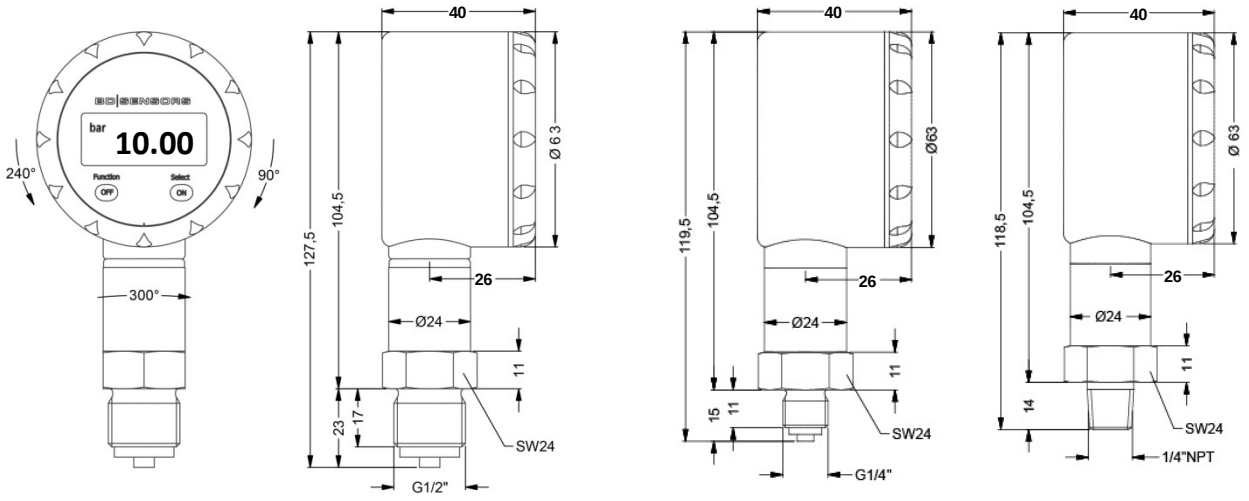
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Input Pressure												
Nominal pressure gauge	[bar]	6	10	16	25	40	60	100	160	250	400	600
Overpressure	[bar]	12	20	32	50	80	120	200	320	500	800	1 200
Burst pressure	[bar]	30	50	80	125	200	300	500	800	1 400	2 000	3 000
Vacuum resistance		unlimited										

Performance			
Accuracy [1]	≤ ± 1.0 % FSO		
Measuring rate	1/sec		
Long term stability	≤ ± 0.3 % FSO / year at reference conditions		
[1] accuracy according to IEC 61298-2 – limit point adjustment (non-linearity, hysteresis, repeatability)			
Thermal effects (offset and span)			
Tolerance band	≤ ± 0.5 % FSO / 10 K (typ.)	in compensated range 0 ... 50 °C	
Permissible temperatures			
Permissible temperatures	medium: -25 ... 85 °C	environment: 0 ... 70 °C	storage: 0 ... 70 °C
Materials			
Pressure port / housing	stainless steel 1.4571 (316Ti) / 1.4301 (304)		
Display housing	PA 6.6, Polycarbonate		
Seal of sensor	none (welded)		
Diaphragm	stainless steel 1.4542 (630)		
Media wetted parts	pressure port, diaphragm		
Miscellaneous			
Display	LC-Display, visible range 36 x 15 mm; 4.5-digit 7-segment-display, digit size 8.5 mm, range of indication ±1999 decimal place is calculated automatically by device considering range and accuracy - customer-setting not possible		
Electromagnetic compatibility	emission and immunity according to EN 61326		
Supply	3 V lithium battery (CR 2450)		
Data storage	EEPROM (non-volatile)		
Ingress protection	IP 65		
Installation position	any		
Weight	plastic: approx. 150 g		
Operational life of battery	min. 1 500 h with permanent operation		
Mech. operational life	100 million load cycles		
CE-conformity	EMC directive 2014/30/EU	pressure equipment directive: 2014/68/EU (Modul A) [2]	
[2] This directive is only valid for devices with maximum permissible overpressure > 200 bar.			

Dimensions (in mm)



G 1/2" EN 837 G1/4" EN 837 1/4" NPT

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BD|SENSORS pressure measurement

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Ordering code DM 17

DM 17	☐☐☐	- ☐☐☐☐	- 0	- ☐	- 0K0	- ☐☐☐	- ☐	- ☐	- ☐	- ☐	- ☐☐☐	
Pressure												
gauge	M 0 3											
Input **[bar]**												
6		6 0 0 1										
10		1 0 0 2										
16		1 6 0 2										
25		2 5 0 2										
40		4 0 0 2										
60		6 0 0 2										
100		1 0 0 3										
160		1 6 0 3										
250		2 5 0 3										
400		4 0 0 3										
600		6 0 0 3										
customer		9 9 9 9										consult
Accuracy												
1.0 % FSO				8								
customer				9								consult
Mechanical connection / Seal												
G1/2" EN837 / without						2 0 0	2					
1/4" NPT / without						N 4 0	2					
G1/4" EN 837 / without						4 0 0	2					
customer						9 9 9	9					consult
Pressure port												
stainless steel 1.4571 (316Ti)								1				
customer								9				consult
Diaphragm												
stainless steel 1.4542 (630)									Z			
customer									9			consult
Front foil												
standard										1		
neutral										N		
customer										9		consult
Special version												
standard											0 0 0	
oxygen application											0 0 7	
customer											9 9 9	consult

19.12.2025

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