



# DM 17

## Battery Powered Digital Pressure Gauge

stainless steel sensor, welded

class 0.5

### 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<sub>2</sub>O)
- ▶ 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



Oxygen application



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	$\leq \pm 0.5\%$ span BFSL
Measuring rate	1/sec
Long term stability	$\leq \pm 0.3\%$ span / year at reference conditions

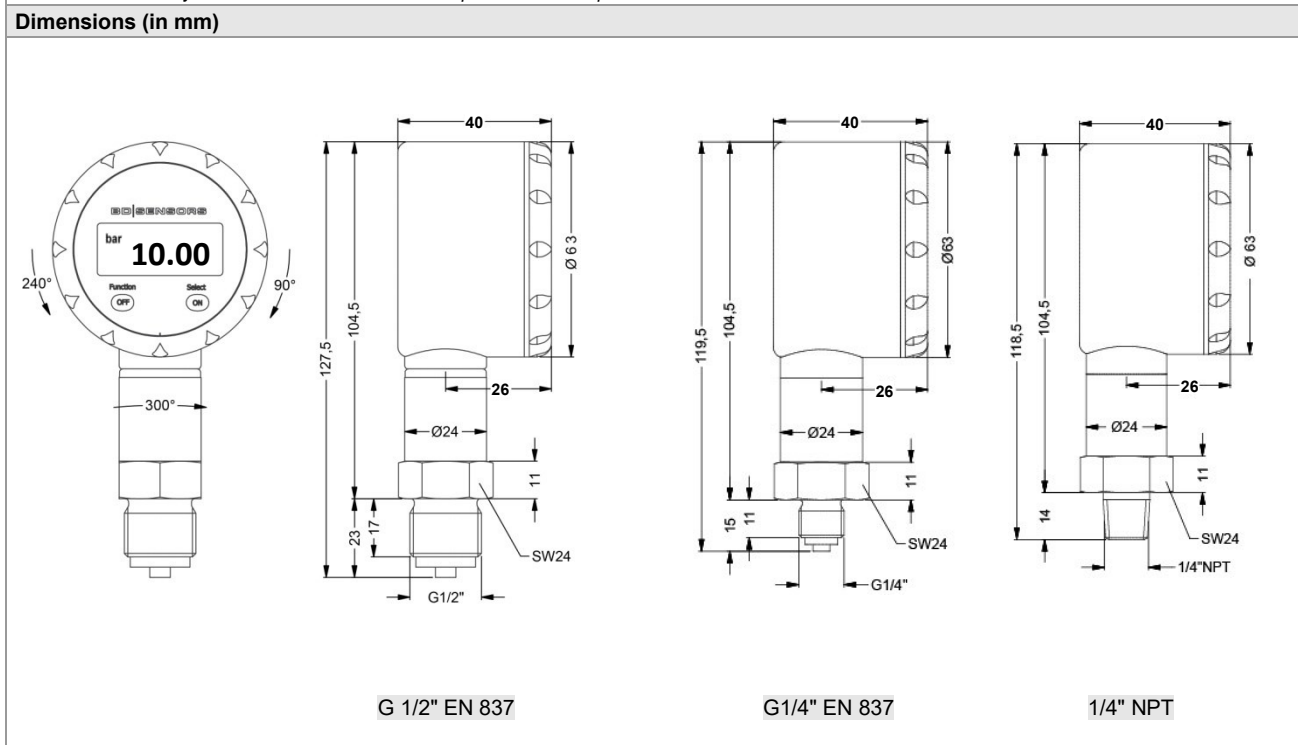
Thermal effects (Offset and Span)	
Tolerance band	$\leq \pm 0.5\%$ span / 10 K (typ.) in compensated range 0 ... 50 °C

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 $\pm 1999$ 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) <sup>1</sup>

<sup>1</sup> This directive is only valid for devices with maximum permissible overpressure > 200 bar.



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# DM 17

Digital Pressure Gauge

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The manufacturer provides the EU declaration of conformity.

Calibration - All production undergoes output control, which is performed by comparison with standards. The traceability of standards and working gauges is ensured in accordance with Act No. 505/1990, as amended, on metrology.

The manufacturer offers the possibility to supply sensors calibrated in the calibration laboratory of BD SENSORS, accredited according to ČSN EN ISO / IEC 17025: 2018.

Ordering code DM 17

23.08.2024

DM 17

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<b>Pressure</b>									
Gauge	M	0	3						
<b>Input [bar]</b>									
0 ... 6				6	0	0	1		
0 ... 10				1	0	0	2		
0 ... 16				1	6	0	2		
0 ... 25				2	5	0	2		
0 ... 40				4	0	0	2		
0 ... 60				6	0	0	2		
0 ... 100				1	0	0	3		
0 ... 160				1	6	0	3		
0 ... 250				2	5	0	3		
0 ... 400				4	0	0	3		
0 ... 600				6	0	0	3		
Customer				9	9	9	9		
Customer underpressure				X	X	X	X		
<b>Accuracy</b>									
0,5 % BFSL (1 % span IEC)								B	8
Customer								9	9
<b>Mechanical connection</b>									
G 1/2" EN 837								2	0
G 1/4" EN 837								4	0
1/4" NPT								N	4
Customer								9	9
<b>Seals</b>									
Without								2	
Customer								9	
<b>Pressure port</b>									
Stainless steel 1.4404 (316 L)								1	
Customer								9	
<b>Diaphragm</b>									
Stainless steel 1.4542 (630)								Z	
Customer								9	
<b>Front foil</b>									
Standard									1
Neutral									N
Customer									9
<b>Special version</b>									
Standard									0
Oxygen application									0
Customer									9

0,-...without additional charge  
 On request...in accordance with the producer  
 Surcharges for calibration are not subject to any discounts. Subject to change.  
 This document contains the specification for ordering the product;  
 detailed technical parameters of the product and its possible variants are given in the data sheet.  
 BD SENSORS reserves the right to change sensor specifications without further notice.



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The company BD SENSORS s.r.o. is certified by Bureau Veritas Czech according to the standard ISO 9001.