



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 > 1.800 h

Functions

- ▶ min / max function with reset function
- ▶ auto-zero
- ▶ setting of pressure unit
(bar, mbar, psi, MPa, mH₂O)
- ▶ automatic switch-off configuration

Option

- ▶ oil and grease free version
for oxygen application

The compact digital pressure gauge DM 17 is battery-powered and has an adjustable housing; it is thus extremely suitable for mobile pressure monitoring. An unusual feature of the DM17 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 complete the DM 10 profile.

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

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

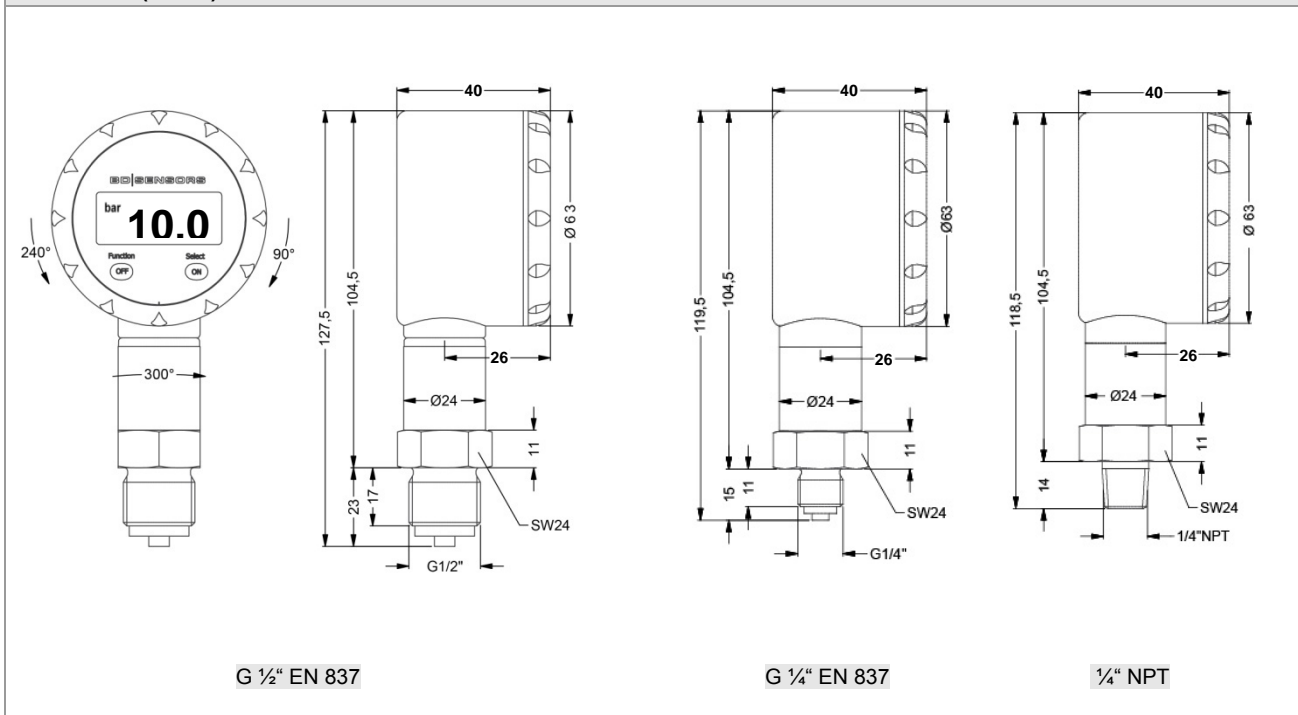
Permissible temperatures			
Permissible temperatures	medium: -25 ... 85 °C	environment: 0 ... 70 °C	storage: 0 ... 70 °C

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
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. 1500 h with permanent operation
Mech. operational life	> 100 x 10 ⁶ pressure cycles
CE-conformity	EMC directive 2014/30/EU pressure equipment directive: 2014/68/EU (Modul A) ¹

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

Dimensions (in mm)



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Ordering code DM17

DM17

□□□□ - □□□□ - 0 - □□ - 0K0 - □□□□ - □ - □ - □ - □ - □□□□

Pressure									
gauge	M	0	3						
Input [bar]									
6.0	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 [BFSL]									
0.5 %					B	8			
customer					9	9			consult
Mechanical connection / Seals									
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
oxygen application								0	0
customer								9	9
									consult

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