



DM 10

Battery Powered Digital Pressure Gauge

Ceramic Sensor

class 0.5

Nominal pressure

from 0 ... 1.6 bar up to 0 ... 250 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

The compact low-cost digital pressure gauge DM 10 is battery-powered and has an adjustable housing; it is thus extremely suitable for mobile pressure monitoring. 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.

It is possible to switch between the most common units (bar, psi, Pa, MPa). Additional functions as 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



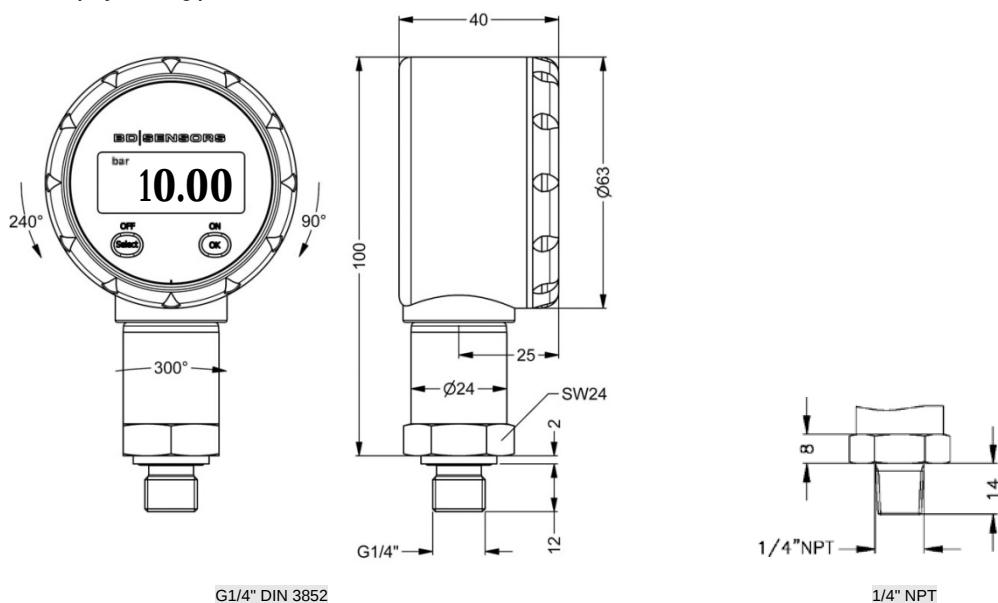
Environmental Engineering
(water – sewage – recycling)



Input Pressure													
Nominal pressure gauge	[bar]	1.6	2.5	4	6	10	16	25	40	60	100	160	250
Overpressure	[bar]	4	4	10	10	20	40	40	100	100	200	400	400
Burst pressure	[bar]	7	7	15	15	35	70	70	150	150	250	450	450
Vacuum resistance		unlimited											

Performance			
Accuracy ¹	≤ ± 0.5 % FSO BFSL		
Measuring rate	1/sec		
Long term stability	≤ ± 0.3 % FSO / year		
¹ accuracy according to IEC 60770 – minimum value setting (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 1.4301 (304)		
Display housing	PA 6.6, Polycarbonate		
Seals (media wetted)	FKM	others on request	
Diaphragm	ceramics Al ₂ O ₃ 96 %		
Media wetted parts	pressure port, seals, 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 2004/108/EC		pressure equipment directive: 97/23/EC (Modul A) ²
² This directive is only valid for devices with maximum permissible overpressure > 200 bar.			
Dimensions (in mm)			

display housing plastic



Ordering code DM 10

DM 10																
Pressure																
	gauge	M	0	4												
Input																
	[bar]															
	1.6				1	6	0	1								
	2.5				2	5	0	1								
	4.0				4	0	0	1								
	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								
	customer				9	9	9	9								consult
Accuracy																
	[BFSL]															
	0.5 %							B	8							
	customer							9	9							consult
Mechanical connection																
	G1/4" DIN 3852									3	0	0				
	1/4" NPT									N	4	0				
	customer									9	9	9				consult
Seals																
	FKM										1					
	customer										9					consult
Pressure port																
	Stainless steel 1.4301 (304)											2				
	customer											9				consult
Diaphragm																
	Ceramics Al ₂ O ₃ 96%												2			
	customer												9			consult
Front foil																
	standard													1		
	neutral													N		
	customer													9		consult
Special version																
	standard													0	0	0
	customer													9	9	9
																consult

This price list contains product specification; properties are not guaranteed. Detailed information about options are defined in the datasheet. Subject to change without notice.