



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 > 1 500 h

Functions

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

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)









DM 10

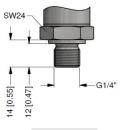
Digital Pressure Gauge

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 61298-2 -	minimum value setting (non-linearity, hysteresis, repeatability)						
Thermal effects (offset and spa	in)						
Tolerance band	≤ ± 0.5 % FSO / 10 K (typ.) in compensated range 0 50 °C						
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 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	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 device	s with maximum permissible overpressure > 200 bar.						

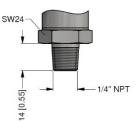
Dimensions / Mechanical connections (mm / in)





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G1/4" DIN 3852



1/4" NPT

DM10_E_080425 NSORS
pressure measurement

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Ordering code DM 10 DM 10 - 0 K 0 -Pressure gauge M 0 4 1 6 0 1 2 5 0 1 4 0 0 1 6 0 0 1 1 0 0 2 1 6 0 2 2 5 0 2 4 0 0 2 6 0 0 2 1 0 0 3 1 6 0 3 2 5 0 3 9 9 9 9 Input [bar] 1.6 2.5 4.0 6.0 10 16 25 40 60 100 160 250 customer consult Accuracy [BFSL] B 8 9 9 0.5 % customer consult Mechanical connection G1/4" DIN 3852 3 0 0 N 4 0 9 9 9 1/4" NPT customer consult Seals FKM customer consult Pressure port stainless steel 1.4301 (304) 2 9 customer consult Diaphragm ceramics Al₂O₃ 96% 2 customer consult Front foil standard neutral N customer 9 consult Special version 0 0 0 9 9 9 standard customer consult

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