DM 10

Battery Powered Digital Pressure Gauge

Ceramic Sensor

class 1

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, mH_2O)
- 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)

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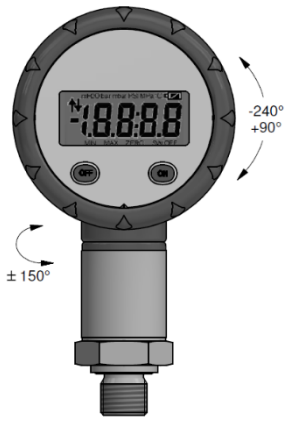
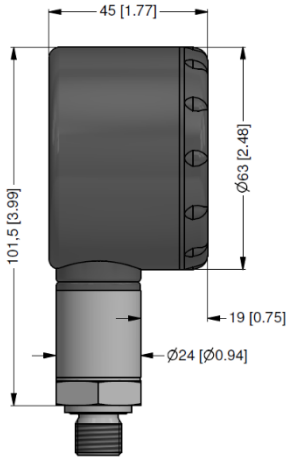
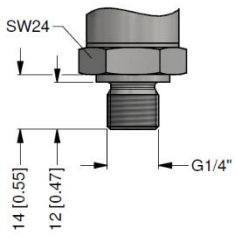
Input Pressure													
Nominal pressure gauge	[bar]	1.6	2.5	4	6	10	16	25	40	60	100	160	250
Overpressure	[bar]	4	4	10	10	20	40	40	100	100	200	400	400
Burst pressure	[bar]	7	7	15	15	35	70	70	150	150	250	450	450
Vacuum resistance		unlimited											

Performance	
Accuracy [1]	≤ ± 1.0 % FSO
Measuring rate	1/sec
Long term stability	≤ ± 0.3 % FSO / year
[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	
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_2O_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 devices with maximum permissible overpressure > 200 bar.	

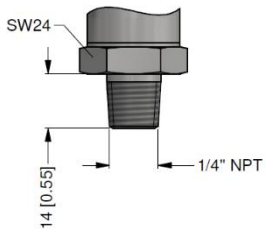
Dimensions / Mechanical connections (mm / in)







G1/4" DIN 3852



1/4" NPT

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BD|SENSORS pressure measurement

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pressure measurement

Ordering code DM 10

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