

DM 10

Battery Powered Digital Pressure Gauge

Ceramic Sensor

accuracy 1 %

Nominal pressure

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

Special characteristics

- adjustable housing
- 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)
- 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, mH₂O, 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)











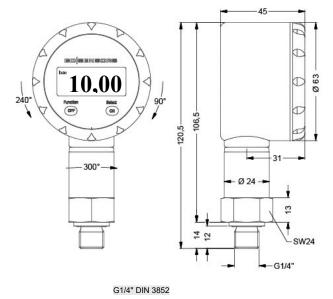


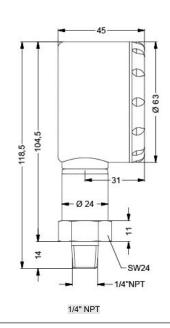
Input Pressure													
Nominal pressure gauge	[bar]	1.6	2.5	4	6	10	16	25	40	60	100	160	250
Overpressure	[bar]	4	4	10	10	20	40	40	100	100	200	400	400
Burst pressure	[bar]	7	7	15	15	35	70	70	150	150	250	450	450
Vacuum resistance	unlimited												

Performance									
Accuracy ¹	≤ ± 0,5 % span BFSL (1 % span IEC)								
Measuring rate	1/sec								
Long term stability	≤ ± 0.3 % span / year								
¹ accuracy according to EN IEC 6282	8-2- minimum value setting (non-linearity, hysteresis, repeatability)								
Thermal effects (Offset and Sp	an)								
Tolerance band	≤ ± 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 1.4301 (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	plastic: approx. 150 g								
Operational life of battery	min. 1500 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	s with maximum permissible overpressure > 200 bar.								
Dimensions (in mm)									

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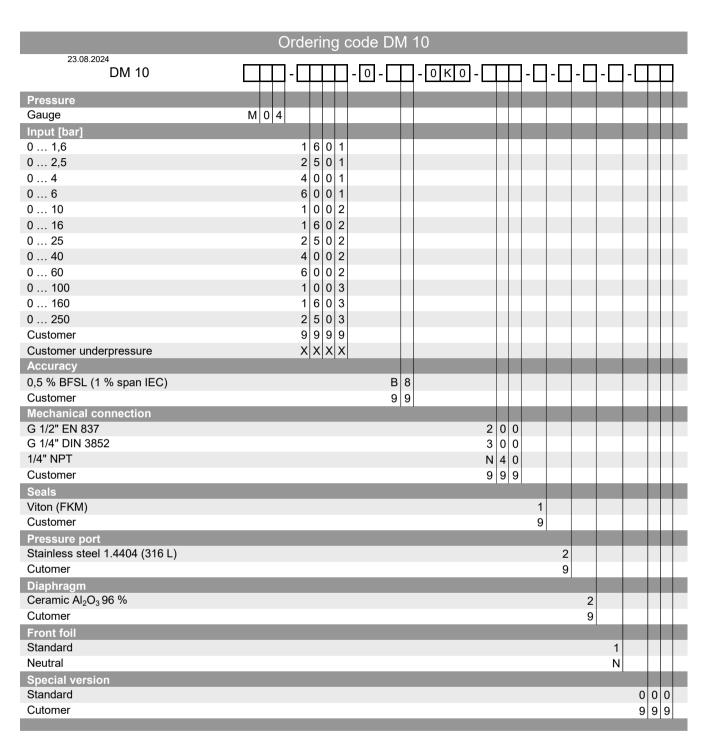
display housing plastic





This data sheet contains product specification, properties are not quaranteed. Subject to change without notice.





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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