Produits > Pression > Manomètres > Manomètres Digitaux

Manomètre digital sur baterie



DM 17

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]	14	35	35	70	140	140	350	350	700	1 200	1 200
Burst pressure [bar]	28	70	70	140	280	280	700	700	1 400	1 500	1 500
Vacuum resistance	unlimited										

Performance

Accuracy 1	? ± 0.5 % FSO BFSL
Measuring rate	1/sec
Long term stability	? ± 0.3 % FSO / year at reference conditions
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 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)

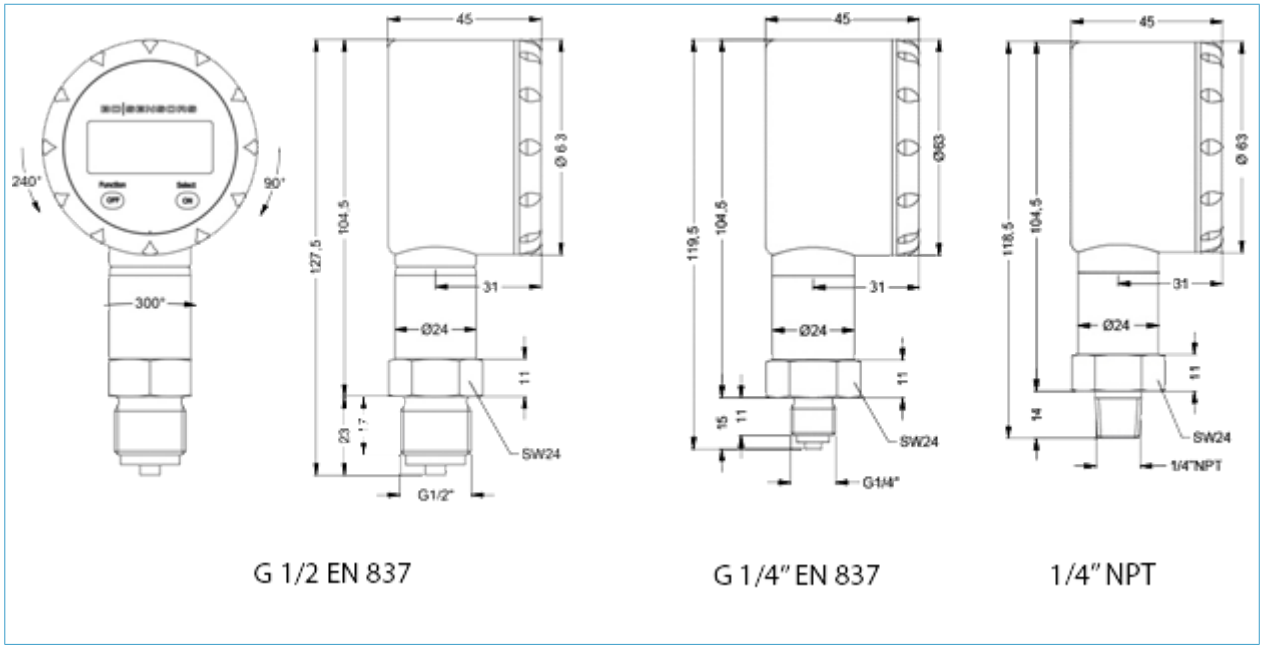
Media wetted parts	pressure port, diaphragm

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 106 pressure cycles
CE-conformity	EMC directive 2004/108/EC pressure equipment directive: 97/23/EC (Modul A) 2

2This directive is only valid for devices with maximum permissible overpressure > 200 bar.

Dimensions (in mm)


240°
90°
300°
45
127.5
104.5
Ø 6.3
31
Ø24
11
23
17
SW24
G1/2"
G 1/2 EN 837
45
119.5
104.5
Ø63
31
Ø24
11
15
11
SW24
G1/4"
G 1/4" EN 837
45
118.5
104.5
Ø 63
31
Ø24
11
14
SW24
1/4"NPT
1/4" NPT