

Digitale manometers

TYPE:	ETD-03, klasse 0.1
KASTDIAMETER:	75,5 MM
Bereiken:	0 - 400 mbar tot 0 - 1000 bar *
Nauwkeurigheid:	0,1%
Aansluiting:	1/4" BSP RVS 316L (EN837-1)
Drukeenheid:	bar, mbar, PSI, InHg, cmHg, mmHg, hPa, kPa, mPa, mH ₂ O, InH ₂ O
Batterij:	standby tijd +/- 5 jaar
Display:	2-line display 4.5-digit 7 segment display 6-digit 14-segment additional display



Specificaties

Min-Max functie met reset functie.
Auto-zero.
Automatic switch-off functie.
Rotable housing and display.

COMPLEET OVERZICHT TECHNISCHE INFORMATIE ZIE VOLGENDE BLADZIJDE

Bestelcode	Prijs €	Aanwijzing: bar
------------	---------	-----------------

903002	249,00	0 - 1.6
903003	249,00	0 - 2.5
903004	249,00	0 - 4
903006	249,00	0 - 6
903010	249,00	0 - 10
903016	249,00	0 - 16
903025	269,00	0 - 25
903040	269,00	0 - 40
903060	269,00	0 - 60
903100	269,00	0 - 100
903160	269,00	0 - 160
903250	269,00	0 - 250
903400	269,00	0 - 400
903600	269,00	0 - 600
903610	426,00	0 - 1000

* Lage druk prijs op aanvraag

Digitale Manometer - Type ETD-03 / Bladzijde 2

Input pressure ranges

Nominal pressure gauge [bar]	0.10	0.16	0.25	0.40	0.60	1	1.6	2.5	4	6
Nominal pressure abs. [bar]	-	-	-	0.40	0.60	1	1.6	2.5	4	6
Overpressure [bar]	0.5	1	1	2	5	5	10	10	20	40
Burst pressure [bar]	1.5	1.5	1.5	3	7.5	7.5	15	15	25	50

Nominal pressure gauge / abs. [bar]	10	16	25	40	60	100	160	250	400	600
Overpressure [bar]	40	80	80	105	210	210	600	1050	1050	1250
Burst pressure [bar]	50	120	120	210	420	420	1000	1250	1250	1250
Vacuum pressure	-1 ... 0 bar, overpressure: 5 bar, burst pressure: 7.5 bar other vacuum ranges on request									
Vacuum resistance	P _N ≥ 1 bar: unlimited vacuum resistance; P _N < 1 bar: on request									

Performance

Accuracy ¹	nominal pressure ≥ 0.4 bar: ± 0.125 % FSO BFSL nominal pressure: < 0.4 bar: ± 0.25 % FSO BFSL
Measuring rate	5/sec
Long term stability	± 0.1 % FSO / year at reference conditions

¹ accuracy according to IEC 60770 – minimum value setting (non-linearity, hysteresis, repeatability)

Thermal effects (Offset and Span)

Nominal pressure P _N [bar]	-1 ... 0	≤ 0.40	> 0.40
Tolerance band [% FS]	≤ ± 0.75	≤ ± 1	≤ ± 0.75
in compensated range [°C]	-20 ... 85 °C	0 ... 70 °C	-20 ... 85 °C

Permissible temperatures

Permissible temperatures	medium: -20 ... 85 °C	environment: -20 ... 70 °C	storage: -30 ... 80 °C
--------------------------	-----------------------	----------------------------	------------------------

Mechanical stability

Vibration	5 g RMS (25 ... 2000 Hz)	according to DIN EN 60068-2-6
Shock	100 g / 1 msec	according to DIN EN 60068-2-27

Materials

Pressure port / Housing	stainless steel 1.4404 (316 L)
Display housing	PA 6.6, polycarbonate
Seals (media wetted)	FKM
Diaphragm	stainless steel 1.4435 (316 L)
Media wetted parts	pressure port, seals, diaphragm

Miscellaneous

Display	LC display, visible range 40 x 30 mm; 4.5-digit 7-segment-display, digit height 11 mm, range of indication ±19999; 6-digit 14-segment additional display, digit height 7.5 mm
Electromagnetic compatibility	emission and immunity according to EN 61326
Supply	3.6 V Lithium battery; 2 piece (type 1/2 AA)
Data storage	EEPROM (non-volatile)
Ingress protection	IP 65
Installation position	any ²
Weight	approx. 300 g
AD-converter solution	14 Bit
Operational life of battery	standby mode: approx. 5 years
mech. operational life	> 100 x 10 ⁶ pressure cycles
CE-conformity	EMC Directive: 2004/108/EG Pressure Equipment Directive: 97/23/EG (Modul A) ³

² The digital pressure gauge is calibrated in a vertical position with the pressure connection down. If this position is changed on installation there can be slight deviations in the zero point for devices with stainless steel sensor and pressure range P_N ≤ 1 bar.

³ This directive is only valid for devices with maximum permissible overpressure > 200 bar.

Dimensions (in mm)

