

MEX5 - MEM5 Industrial Pressure Gauges DN 100

Corrosive atmospheres and fluids

Resistant to transient overpressure

Accuracy Class 1.0

Stainless steel sensing element (MEX)
or monel (MEM)

Fully welded process connection

Sealed case can be filled with dampening fluid

Conform to EN 837-1 standard and Pressure Directive
PED 97/23/CE

Approval Lloyd's Register

Pressure gauges intended for process industries such as chemical,
petro-chemical, energy or gas industries.

These pressure gauges have been designed to satisfy requirements to operate
in aggressive environments.



Technical Data (20°C)

Measurement range	MEX -1...0 to 0...1600 bar MEM -1... 0 to 0...600 bar
Working pressure (-1 ... 600 bar)	Steady: 100% of full scale value Fluctuating: 90% of full scale value Short time: 130% of full scale value
(1000 ... 1600 bar)	Steady: 75% of full scale value Short time: 100% of full scale value
Gauge working temperature	-20...70°C The gauge may be used on fluid temperatures up to 200°C providing that the gauge temperature does not exceed 70°C.
Temperature error	Additional error when temperature of the pressure element deviates from +20°C (68°F) ±0.4% for every 10°C (50°F) rising or falling. Percentage of span.
Accuracy	Class 1 (Class 2.5 for 0.6 bar filled and for 0.4 dry)
IP rating	IP 65 (EN 60529)
Case and bezel ring	1.4301 (AISI 304) st. steel, bayonet lock type. With blow-out disc at the top of the case.
Connection	MEX 1.4571 (316Ti) or 1.4404 (316L) st. steel, 22 mm square, G1/2 or 1/2NPT MEM Monel 400
Sensing element	MEX P ≤ 2.5 bar and P ≥ 1000 bar: 1.4404 (316L) stainless steel, solid drawn tube. 2.5 < P < 1000 bar: 1.4571 (316Ti) st. steel, rolled welded tube. MEM Monel 400 Tube shape: < 60 bar : in C ≥ 60 bar : helicoil
Movement	Stainless steel with zero and overrange stops
Window	Glass, 4 mm thick
Window gasket	Elastomer
Dial	Aluminium alloy, black graduations and figures on white background.
Pointer	Aluminium alloy, balanced, black painted.

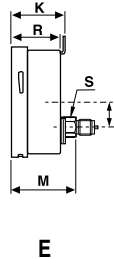
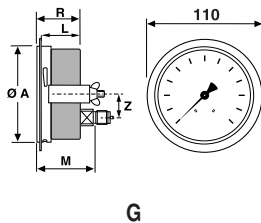
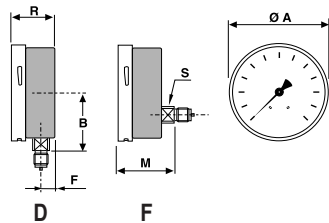
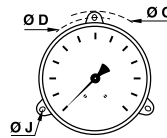
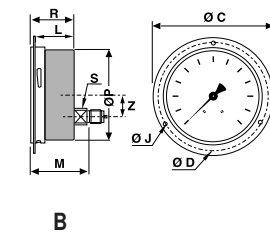
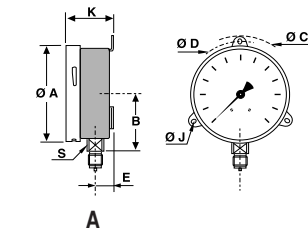
Options

Supplementary blow-out back (30 mm dia). Code 0760
1.4404 (AISI 316L) stainless steel sensing element with solid drawn tube. Code 0816
Window material : safety laminated glass Code 0751 , polycarbonate Code 0753 or polymethacrylate (plexiglass). Code 0752
Micrometer adjustable pointer (P ≥ 1.6 bar). Code 0678
Oxygen application. Code 0765
Laboratory cleanliness Code 0835 or nuclear cleanliness. Code 0838
Overrange protection device: RAS1 : accuracy Class 1 (≤ 600 bar). Code 0191 Overrange between 1.2 and 3 times the scale (MEX) 1.2 and 1.5 times the scale (MEM) RAS2 : accuracy Class 2 (≤ 1000 bar). Code 0192 Overrange between 1.4 and 5 times the scale (MEX) 1.3 and 2.5 times the scale (MEM)
Dashpot mechanical dampening. Code 0655 Scale 0-1 bar ; 0 -1.6 bar ; 0 - 2.5 bar - Pressure ± 1.6 %. Scale P > 2.5 bar - Pressure ± 1 %. This device can, in certain cases, replace the BH version.
Pointer adjustable by friction (all pressures). Code 0679
Special threads.
Restrictor screw Ø 0,5. Code 0771
ATEX version CE II 2 GDc - I M2c : glass window model only. Code 0078



Baumer

Dimensions - Types of mounting



Weight (kg) :
filled : 0.810
unfilled : 0.510

	[mm]
A	101
B	67
C	134
D	118
E	21.5
F	17
J	5.5
K	54.5
L	44.5
M	64
P	99
R	50.5
S	22
Z	31.5

Panel cut-outs for types B and G = Ø 102 mm

Ordering Details - MEX5

MEX5xxxxxx	
Model	1' ... 3' digit
All Stainless steel Pressure Gauge	MEX
Pressure gauge with monel sensing element (1)	MEM
Dimension nominal	4' digit
100 mm	5
Type of mounting*	5' digit
Bottom connection, 3 back lugs fixing	A
Back connection, front flange	B
Bottom connection	D
Back connection, 3 back lugs fixing	E
Back connection	F
Back connection with clamp	G
* Option Stainless steel case and bezel ring inox 1.4404 (316L) change A with 1, B with 2, D with 4, E with 5, F with 6 et G with 7	
Hydraulic connection	6' digit
G1/4	2
G1/2	3
G3/8	J
1/2NPT	6
M20x1.50	9
Liquid filling	7' digit
Dry	0
BH1 (glycerin/water) (except 0.4 bar)	1
BH3 (silicone) (except 0.4 bar)	3
Unit of measurement	8' digit
bar	B
kPa	D
psi	H
Pressure range	9' ... 10' digit
See data sheet	xx

code	bar	kPa	code	psi
57	-0.4 + 0	-40 + 0	57	
58	-0.6 + 0	-60 + 0	58	
59	-1 + 0	-100 + 0	59	-30"Hg+ 0
72	-1 + 0.6	-100 + 60	73	-30"Hg+ 15
74	-1 + 1.5	-100 + 150	75	-30"Hg+ 30
76	-1 + 3	-100 + 300	76	-30"Hg+ 60
77	-1 + 5	-100 + 500	77	-30"Hg+ 100
79	-1 + 9	-100 + 900	79	-30"Hg+ 150
81	-1 + 15	-100 + 1500	81	-30"Hg+ 220
82	-1 + 24	-100 + 2400	82	-30"Hg+ 300
11	0 + 0.4	0 + 40	11	0 + 6
12	0 + 0.6	0 + 60	12	0 + 10
15	0 + 1	0 + 100	15	0 + 15
16	0 + 1.6	0 + 160	16	0 + 20
18	0 + 2.5	0 + 250	18	0 + 30
19	0 + 4	0 + 400	19	0 + 60
20	0 + 6	0 + 600	20	0 + 100
22	0 + 10	0 + 1000	22	0 + 160
24	0 + 16	0 + 1600	24	0 + 200
26	0 + 25	0 + 2500	26	0 + 300
27	0 + 40	0 + 4000	27	0 + 400
29	0 + 60	0 + 6000	29	0 + 600
31	0 + 100	0 + 10000	31	0 + 1000
33	0 + 160	0 + 16000	33	0 + 1500
35	0 + 250	0 + 25000	35	0 + 3000
38	0 + 400	0 + 40000	38	0 + 6000
39	0 + 600	0 + 60000	39	0 + 10000
41*	0 + 1000	0 + 100000	41*	0 + 15000
42*	0 + 1600	0 + 160000	42*	0 + 20000

* Working pressure steady: 75% of full scale value

(1) Monel mode (MEM) is not workable in code 41, 42, 1D, 57 et 58

Some products of the range MEX5 are one day delivery time (ex-works) : consult us

Uncoded options:

PNEUMATIC RECEIVER	0.2 - 1 bar 3-15 psi
0 - 10 lin.	
0 - 10 √	
0 - 100 lin.	
0 - 100 √	