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** **MEM**	-1...0 to 0...1600 bar -1... 0 to 0...600 bar
Working pressure ***(-1 ... 600 bar)***	Steady: Fluctuating: Short time:	100% of full scale value 90% of full scale value 130% of full scale value
(1000 ... 1600 bar)	Steady: Short time:	75% of full scale value 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 0.4 bar)	
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 mecahnical dampening. ***Code 0655***
Scale 0-1 bar ; 0 -1.6 bar ; 0 - 2.5 bar - Presure ± 1.6 %.
Scale P > 2.5 bar - Presure ± 1 %.
This device can, in certain cases, replace the BH version.

Pointer adjustable by friction (all pressures). ***Code 0679***

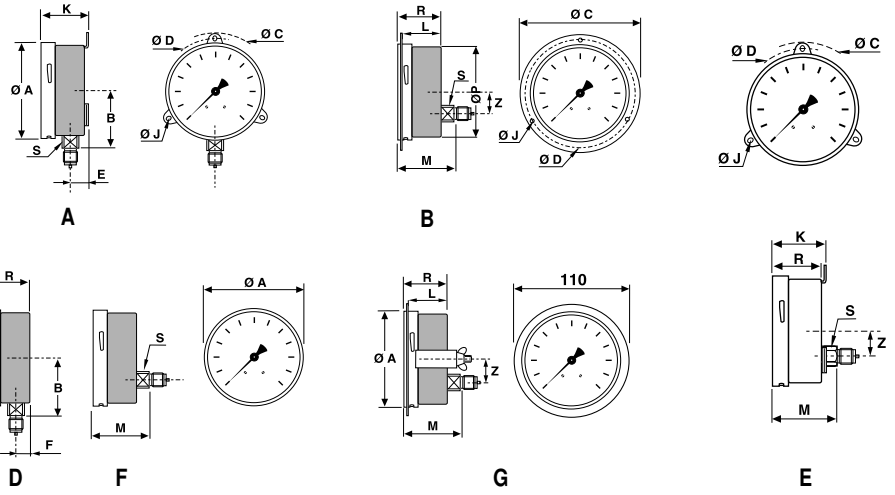
Special threads.

Restrictor screw ∅ 0,5. ***Code 0771***

ATEX version CE II 2 GDc - I M2c : glass window model only. ***Code 0078***

Baumer

Dimensions - Types of mounting



	[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

Weight (kg) :
filled : 0.810
unfilled : 0.510

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		1
BH3 (silicone)		3
Unit of measurement	**8´ digit**	
bar		B
kPa		D
psi		H
Pressure range	**9´ ... 10´ digit**	
See data sheet		x x

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	**2C**	-30"Hg + 60
77	-1 + 5	-100 + 500	**78**	-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	**13**	0 + 10
15	0 + 1	0 + 100	**15**	0 + 15
16	0 + 1.6	0 + 160	**1C**	0 + 20
18	0 + 2.5	0 + 250	**17**	0 + 30
19	0 + 4	0 + 400	**19**	0 + 60
20	0 + 6	0 + 600	**21**	0 + 100
22	0 + 10	0 + 1000	**22**	0 + 160
24	0 + 16	0 + 1600	**23**	0 + 200
26	0 + 25	0 + 2500	**25**	0 + 300
27	0 + 40	0 + 4000	**26**	0 + 400
29	0 + 60	0 + 6000	**27**	0 + 600
31	0 + 100	0 + 10000	**30**	0 + 1000
33	0 + 160	0 + 16000	**31**	0 + 1500
35	0 + 250	0 + 25000	**34**	0 + 3000
38	0 + 400	0 + 40000	**38**	0 + 6000
39	0 + 600	0 + 60000	**40**	0 +10000
41*	0 +1000	0 + 100000	**41***	0 +15000
42*	0 +1600	0 + 160000	**1D***	0 +20000

* Working pressure steady: 75% of full scale value
(1) Monel mode (MEM) is not warkable 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 √	

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