

MEX8 Industrial Pressure Gauge DN 160

All stainless steel pressure gauge

Corrosive atmospheres and fluids

Resistant to transient overpressure

Accuracy Class 1.0

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. All of the external components, together with the measurement element and connection are made of stainless steel.

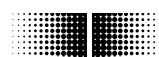


Technical Data (20°C)

Measurement range	-1...0 to 0...1600 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 Fluctuating: 60% 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 (18°F) rising or falling. Percentage of span.
Accuracy	Class 1 (class 2.5 for 0,6 bar filled and 0,4 bar dry).
Degree of protection	IP 65 (EN 60529)
Case and bezel ring	1.4301 (AISI 304) st. steel, bayonet lock type. With a safety blow out disc on the top of the gauge
Connection	1.4571 (316Ti) or 1.4404 (316L) st. steel, 22 mm square, G1/2 or 1/2NPT.
Sensing element	1.4404 (316L) stainless steel 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. Tube shape: < 60 bar: in C ≥ 60 bar: helicoil
Movement	Stainless steel with zero and overrange stops
Window	Glass, 3 mm thick (Safety S1 EN837-1 only with windows in polycarbonate and polymethacrylate)
Window gasket	Elastomer.
Dial	Black figures and lines on a white background.
Pointer	Black aluminium, balanced.

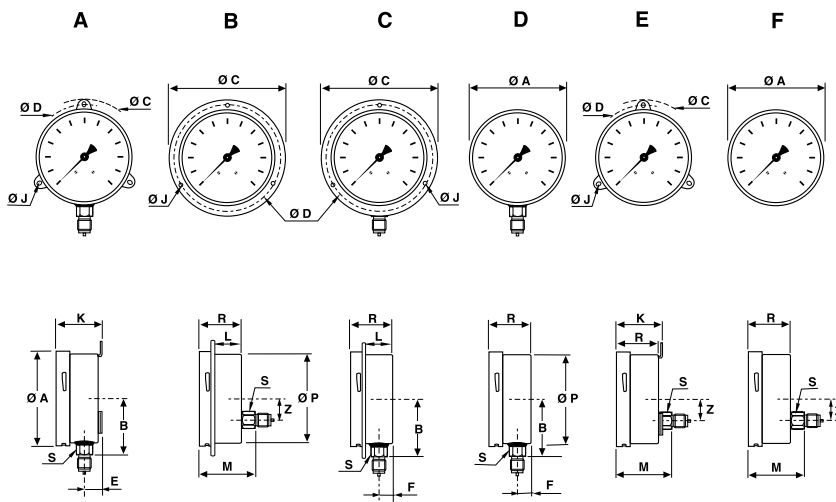
Options

1.4301 (AISI 304) stainless steel case and bezel ring, electropolished.	Code 0156
Sensing element 1.4404 (AISI 316L) st. steel solid drawn tube (2.5 < P < 1000 bar).	Code 0816
Window material:	
Safety laminated glass (Triplex).	Code 0751
Polycarbonate.	Code 0753
Polymethacrylate.	Code 0752
Pointer adjustable by friction (all pressures).	Code 0679
Oxygen application.	Code 0765
Cleanliness:	
Laboratory.	Code 0835
Nuclear.	Code 0838
Overrange protection device:	
RAS1: accuracy Class 1 (≤ 600 bar). Overrange between 1.2 and 3 times the scale	Code 0191
RAS2: accuracy Class 2 (≤ 1000 bar). Overrange between 1.4 and 5 times the scale	Code 0192
Dash pot mechanical dampening. Range 0-1 bar ; 0 -1.6 bar ; 0 - 2.5 bar - Accuracy ± 1.6 %. Range P > 2.5 bar - Accuracy ± 1 %. This device can, in certain cases, replace the BH version.	Code 0655
Special threads (< 1/2"). consult us	
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



	[mm]
A	161
B	93.5
C	196
D	178
E	21.5
F	17
J	5.5
K	54.5
L	44
M	64
P	159
R	50
S	22
Z	31.5

Weight (kg) :
filled : 1.900
unfilled : 0.980

Panel cut-outs for types B = Ø 164 mm

Ordering Details - MEX8

MEX8xxxxxx	
Model	1' ... 3' digit
All Stainless steel Pressure Gauge	MEX
Dimension nominal	4' digit
160 mm	8
Type of mounting	5' digit
bottom connection, 3 back lug fixing	A
back connection, front flange	B
bottom connection, front flange	C
bottom connection	D
back connection, 3 back lug fixing	E
back connection	F
Hydraulic connection	6' digit
G1/4	2
G1/2 (standard)	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 (EN graduations)	B
kPa (EN graduations)	D
psi (ANSI graduations)	H
Pressure range	9' ... 10' digit
See codes in table	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

Uncoded scales:

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

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