

# 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 standard, Pressure Directive PED  
97/23/CE and ATEX Directive 94/9/CE for CE II 2 GDc - I M2 :  
glass window model only

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)

<b>Measurement range</b>	<b>MEX</b> -1...0 to 0...1600 bar <b>MEM</b> -1... 0 to 0...600 bar
<b>Working pressure</b> (-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
<b>Gauge working temperature</b>	-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.
<b>Temperature error</b>	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.
<b>Accuracy</b>	Class 1 (class 2.5 for 0.4 bar)
<b>IP rating</b>	IP 65 (EN 60529)
<b>Case and bezel ring</b>	1.4301 (AISI 304) st. steel, bayonet lock type. With blow-out disc at the top of the case.
<b>Connection</b>	<b>MEX</b> 1.4571 (316Ti) or 1.4404 (316L) st. steel, 22 mm square, G1/2 or 1/2NPT <b>MEM</b> Monel 400
<b>Sensing element</b>	<b>MEX</b> 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. <b>MEM</b> Monel 400 Tube shape: < 60 bar : in C ≥ 60 bar : helicoil
<b>Movement</b>	Stainless steel with zero and overrange stops
<b>Window</b>	Glass, 4 mm thick
<b>Window gasket</b>	Elastomer
<b>Dial</b>	Aluminium alloy, black graduations and figures on white background.
<b>Pointer</b>	Aluminium alloy, balanced, black painted.

## Options

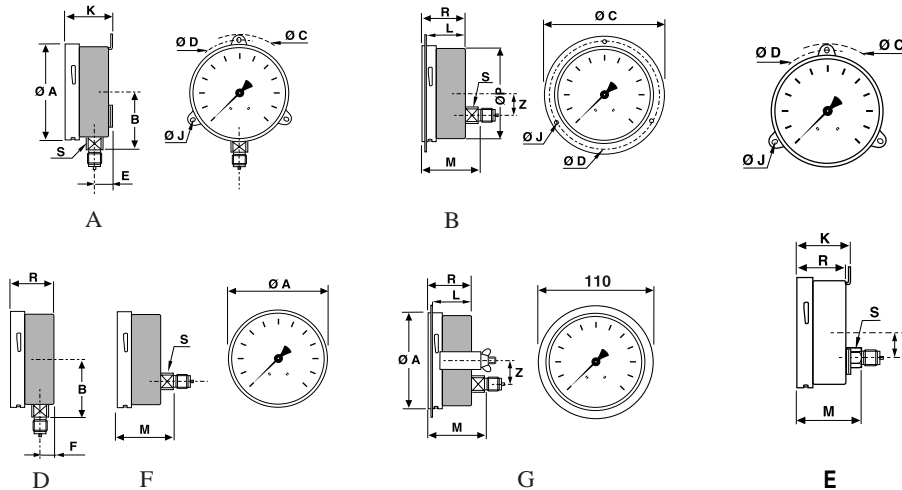
- Supplementary blow-out back (30 mm dia). **Code 0760**
- 1.4404 (AISI 316L) stainless steel sensing element with solid drawn tube. **Code 0816**
- Window material : safety laminated glass **Code 0751**, polycarbonate **Code 0753** or polymethacrylate (plexiglass). **Code 0752**
- Micrometer adjustable 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**

**BOURDON  
HAENNI**

made to measure



## 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			
<b>Model</b>	1' ... 3' digit	MEX			
All Stainless steel Pressure Gauge		MEM			
Pressure gauge with monel sensing element (1)					
<b>Dimension nominal</b>	4' digit				5
100 mm					
<b>Type of mounting*</b>	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					
<b>Hydraulic connection</b>	6' digit				
G1/4		2			
G1/2		3			
G3/8		J			
1/2NPT		6			
<b>Liquid filling</b>	7' digit				
Dry		0			
BH1		1			
BH3 (silicone)		3			
<b>Unit of measurement</b>	8' digit				
bar		B			
kPa		D			
psi		H			
<b>Pressure range</b>	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	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 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 √	