

MEX5 - Industrial Pressure Gauge

for corrosive gases and liquids





BOURDON
The Original by Baumer

EN-837

PED

Lloyd's Register

IP 65

Ex

Technical Data

Nominal size	100 mm
Measurement range	MEX : -1 ... 0 to 0 ... 1600 bar MEM : -1 ... 0 to 0 ... 600 bar
Pressure limitation	
Ranges ≤ 600 bar	Steady : 100% of full scale value Fluctuating : 90% of full scale value Short time : 130% of full scale value
Ranges > 600 bar	Steady : 75% of full scale value Fluctuating : 65% of full scale value Short time : 100% of full scale value
Accuracy	Class 1 (according EN837-1)
Protection rating	IP 65 (EN 60529)
Process Connection	MEX : Stainless steel 1.4404 (AISI 316L) MEM : Monel 400
Bourdon tube	MEX : Stainless steel 1.4404 (AISI 316L) MEM : Monel 400
Case	Stainless steel 1.4301 (AISI 304) Option : Stainless steel 1.4404 (AISI 316L)

Main Features

- For corrosive gasses and liquids
- Class 1 according to EN 837-1
- Wetted parts Stainless steel (MEX) or Monel (MEM)
- Lloyds Register Approval
- Option : liquid-filled for applications with pulsations or vibrations
- Option : case material 1.4404 (316L) for aggressive atmosphere

Applications

- Food & Beverage
- Laboratory & Medical
- Oil & Gas / Chemical
- Water & Waste water
- Energy
- Transportation & Logistics
- Machinery

Bezel ring	Stainless steel 1.4301 (AISI 304) Option : stainless steel 1.4404 (AISI 316L)
Movement	Stainless steel
Window	Instrument glass
Window gasket	Elastomer
Dial	Aluminium, white
Pointer	Aluminium, black
Temperature	Ambient : -20 ... +70°C Medium : -40 ... +200°C (not filled) For liquid filled version see ordering details. The case temperature must not exceed +70°C Storage : -40 ... +70°C
Thermal drift	± 0.4% F.S. / 10 K (reference : 20°C)
Safety	S1 according EN837-1 Pressure gauge with blow-out device

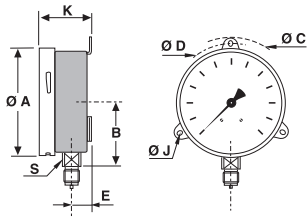
Options

ATEX II2GDc-IM2c (Including window laminated safety glass)	Code 0078
Adjustable micro metric pointer (P ≥ 1.6 bar)	Code 0678
Adjustable friction pointer	Code 0679
Window laminated safety glass	Code 0751
Window polycarbonate	Code 0753
Blow out disc at the back	Code 0760
Restrictor screw Ø 0.5 (for fittings > 1/4")	Code 0771
Stainless steel 1.4404 (AISI 316L) solid drawn Bourdon tube	Code 0816
Accuracy class 0.6 (For pressure gauge not filled and P < 1000 bar)	Code 0840

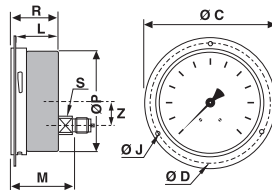
To be ordered separately

Material certificate 3.1 EN10204	Code Q1229
Calibration certificate EN837-1 (5 points raising and 5 points falling)	Code Q1070

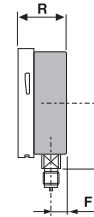
Dimensions - Types of mounting



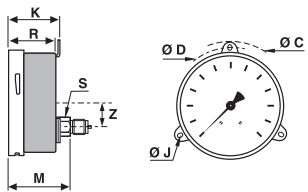
A (11)*



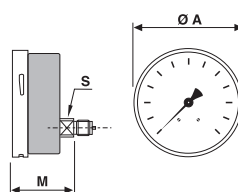
B (32)*



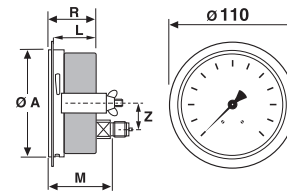
D (10)*



E (31)*



F (30)*



G (33)*

Weight (kg)
Filled : 0.81
Unfilled : 0.51

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

*Type of mounting according to EN837-1 in brackets

mm	A	B	C	D	E	F	J	K	L	M	P	R	S	Z
NS 100	101	67	134	118	21.5	17	5.5	54.5	44.5	64	99	50.5	22	31.5

Pressure ranges

Code	Bar	Code	kPa	Code	kg/cm ²	Code	psi
B58	-0.6 ... 0	D58	-60 ... 0	F58	-0.6 ... 0	H59	-30" Hg ... 0
B59	-1 ... 0	D59	-100 ... 0	F59	-1 ... 0	H73	-30" Hg ... 15
B72	-1 ... 0.6	D72	-100 ... 60	F72	-1 ... 0.6	H75	-30" Hg ... 30
B74	-1 ... 1.5	D74	-100 ... 150	F74	-1 ... 1.5	H2C	-30" Hg ... 60
B76	-1 ... 3	D76	-100 ... 300	F76	-1 ... 3	H78	-30" Hg ... 100
B77	-1 ... 5	D77	-100 ... 500	F77	-1 ... 5	H79	-30" Hg ... 150
B79	-1 ... 9	D79	-100 ... 900	F79	-1 ... 9	H81	-30" Hg ... 220
B81	-1 ... 15	D81	-100 ... 1 500	F81	-1 ... 15	H82	-30" Hg ... 300
B82	-1 ... 24	D82	-100 ... 2 400	F82	-1 ... 24	H13	0 ... 10
B12	0 ... 0.6	D12	0 ... 60	F12	0 ... 0.6	H15	0 ... 15
B15	0 ... 1	D15	0 ... 100	F15	0 ... 1	H1C	0 ... 20
B16	0 ... 1.6	D16	0 ... 160	F16	0 ... 1.6	H17	0 ... 30
B18	0 ... 2.5	D18	0 ... 250	F18	0 ... 2.5	H19	0 ... 60
B19	0 ... 4	D19	0 ... 400	F19	0 ... 4	H21	0 ... 100
B20	0 ... 6	D20	0 ... 600	F20	0 ... 6	H22	0 ... 160
B22	0 ... 10	D22	0 ... 1 000	F22	0 ... 10	H23	0 ... 200
B24	0 ... 16	D24	0 ... 1 600	F24	0 ... 16	H25	0 ... 300
B26	0 ... 25	D26	0 ... 2 500	F26	0 ... 25	H26	0 ... 400
B27	0 ... 40	D27	0 ... 4 000	F27	0 ... 40	H27	0 ... 600
B29	0 ... 60	D29	0 ... 6 000	F29	0 ... 60	H30	0 ... 1 000
B31	0 ... 100	D31	0 ... 10 000	F31	0 ... 100	H31	0 ... 1 500
B33	0 ... 160	D33	0 ... 16 000	F33	0 ... 160	H34	0 ... 3 000
B35	0 ... 250	D35	0 ... 25 000	F35	0 ... 250	H38	0 ... 6 000
B38	0 ... 400	D38	0 ... 40 000	F38	0 ... 400	H40	0 ... 10 000
B39	0 ... 600	D39	0 ... 60 000	F39	0 ... 600	H41	0 ... 15 000
B41	0 ... 1 000			F41	0 ... 1 000	H1D	0 ... 20 000
B42	0 ... 1 600			F42	0 ... 1 600		

Ordering details MEX5 - MEM5

		5	-			.	xxx	/
Model								
All stainless steel pressure gauge	MEX							
Pressure gauge with monel Bourdon tube ⁽¹⁾	MEM							
Nominal size								
100 mm		5						
			-					
Type of mounting								
Stainless steel case and bezel ring 1.4301 (AISI 304)								
Bottom connection, 3 back lugs fixing					A			
Back connection, front flange, 3 mounting holes					B			
Bottom connection					D			
Back connection, 3 back lugs fixing					E			
Back connection					F			
Back connection with clamp					G			
Stainless steel case and bezel ring 1.4404 (AISI 316L)								
Bottom connection, 3 back lugs fixing					1			
Back connection, front flange, 3 mounting holes					2			
Bottom connection					4			
Back connection, 3 back lugs fixing					5			
Back connection					6			
Back connection with clamp					7			
Process connection								
G 1/4					2			
G 1/2					3			
G 3/8					J			
1/4 NPT					5			
1/2 NPT					6			
3/8 NPT					S			
M20 x 1.5					9			
Liquid filling								
Dry					0			
BH1: low viscosity glycerin/water 86% (medium : -20 ... +70°C) ⁽²⁾					1			
BH2: high viscosity glycerin 99.5% (medium : 0 ... +90°C) ⁽²⁾					2			
BH3: silicone oil (medium : -40 ... +100°C) ⁽²⁾					3			
Unit of measurement / Pressure ranges ⁽³⁾								
bar							Bxx	
psi							Hxx	
kPa							Dxx	
MPa							Exx	
mbar							Nxx	
kg/cm²							Fxx	
bar / psi (double scale)							Kxx	
psi / bar (double scale)							Sxx	
psi / kPa (double scale)							Vxx	
kPa / psi (double scale)							Wxx	
kg/cm² / psi (double scale)							5xx	
Options to be added behind the / (see example below)								/

(▶ Standard version)

⁽¹⁾ Monel version is not available for pressure ranges x39, x41 and x59

⁽²⁾ Pressure range 0.6 bar: accuracy cl. 2.5 with BH1 and BH3, not available with BH2

⁽³⁾ Available standard pressures ranges, see tables on page 2. For ranges not listed, please contact Baumer.

Ordering example with options

	MEX	5	-	B	6	0	.	S22	/	0078	-	0771	-	0679
All stainless steel pressure gauge														
Nominal size 100 mm														
Back connection, front flange, 3 mounting holes, case material 1.4301														
Process connection 1/2 NPT														
No liquid filling														
Double scale psi/bar ANSI : 0 ... 160 psi / 0 ... 10 bar														
Option : ATEX Version with laminated safety glass included														
Option : Restrictor screw Ø 0.5														
Option : Adjustable friction pointer														

DISTRIBUTOR



Metalgangen 13
DK-2690 Karlslunde
Danmark
+(45) 73 84 12 30
info@pgflowtechnik.dk
www.pgflowtechnik.dk