Baumer
Passion for Sensors

MEX2 - MEX3 - MEM3

Industrial Pressure Gauges

BOURDON
The Original by Baumer

Main Features

- For corrosive gasses and liquids
- Class 1.6 according to EN 837-1
- Wetted parts Stainless steel (MEX) or Monel (MEM)
- Lloyd`s 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

EN-837 PED Lloyd's Register IP 65 Ex

Technical Data

Nominal size	MEX2: MEX3/MEM3:	50 mm 63 mm
Measurement range	MEX2/MEX3: MEM3:	-1 ... 0 to 0 ... 1000 bar -1 ... 0.6 to 0 ... 400 bar
Pressure limitation	Steady: Fluctuating: Short time:	75% of full scale value 65% of full scale value 100% of full scale value
Accuracy	Class 1.6 (according EN837-1)	
Protection rating	IP 65 (EN 60529)	
Process Connection	MEX: MEM:	Stainless steel 1.4404 (AISI 316L) Monel 400
Bourdon tube	MEX: MEM:	Stainless steel 1.4404 (AISI 316L) Monel 400
Case	Stainless steel 1.4301 (AISI 304) Option: stainless steel 1.4404 (AISI 316L)	

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	Plastic, 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 (with window polycarbonate or laminated safety glass)

Options

ATEX II2GDc-IM2c *(Including window laminated safety glass)*	Code 0078
Adjustable friction pointer (1)	Code 0679
Window laminated safety glass	Code 0751
Window polycarbonate	Code 0753
Restrictor screw Ø 0.3	Code 0769
Accuracy class 1 (1.6 bar < P < 1000 bar)	Code 0841

To be ordered separately

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

(1) only NS 63 mm

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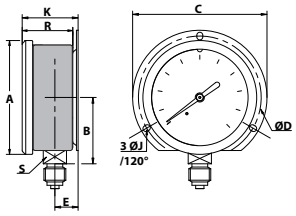
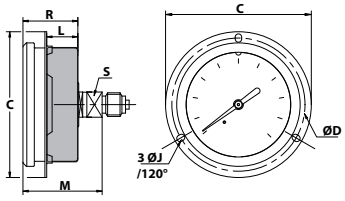
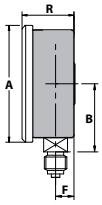
Dimensions - Types of mounting



A (11)*

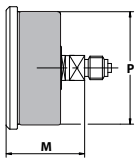


B (32)*

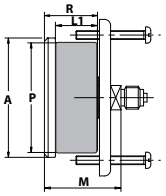


D (10)*

Weight (kg)	Unfilled	Filled
NS 50	0.100	0.150
NS 63	0.130	0.180



F (30)*



G (23)*

Panel cut-outs for types B and G
NS 50 = Ø 53.5 mm / NS 63 = Ø 65.5 mm
*Type of mounting according to EN837-1 in brackets

mm	A	B	C	D	E	F	J	K	L	L1	M	P	R	S
NS 50	55.6	34	68	60	14	11	3.6	34	17.3	23.5	44	51	30.5	14
NS 63	68.8	40.4	81	75	14	10.8	3.6	34	17.3	23.5	44	63	30.2	14

Pressure ranges

Code	Bar
B59	-1 ... 0
B72	-1 ... 0.6
B74	-1 ... 1.5
B76	-1 ... 3
B77	-1 ... 5
B79	-1 ... 9
B81	-1 ... 15
B82	-1 ... 24
B15	0 ... 1
B16	0 ... 1.6
B18	0 ... 2.5
B19	0 ... 4
B20	0 ... 6
B22	0 ... 10
B24	0 ... 16
B26	0 ... 25
B27	0 ... 40
B29	0 ... 60
B31	0 ... 100
B33	0 ... 160
B35	0 ... 250
B38	0 ... 400
B39	0 ... 600
B41	0 ... 1 000

Code	kPa
D59	-100 ... 0
D72	-100 ... 60
D74	-100 ... 150
D76	-100 ... 300
D77	-100 ... 500
D79	-100 ... 900
D81	-100 ... 1 500
D82	-100 ... 2 400
D15	0 ... 100
D16	0 ... 160
D18	0 ... 250
D19	0 ... 400
D20	0 ... 600
D22	0 ... 1 000
D24	0 ... 1 600
D26	0 ... 2 500
D27	0 ... 4 000
D29	0 ... 6 000
D31	0 ... 10 000
D33	0 ... 16 000
D35	0 ... 25 000
D38	0 ... 40 000
D39	0 ... 60 000

Code	kg/cm²
F59	-1 ... 0
F72	-1 ... 0.6
F74	-1 ... 1.5
F76	-1 ... 3
F77	-1 ... 5
F79	-1 ... 9
F81	-1 ... 15
F82	-1 ... 24
F15	0 ... 1
F16	0 ... 1.6
F18	0 ... 2.5
F19	0 ... 4
F20	0 ... 6
F22	0 ... 10
F24	0 ... 16
F26	0 ... 25
F27	0 ... 40
F29	0 ... 60
F31	0 ... 100
F33	0 ... 160
F35	0 ... 250
F38	0 ... 400
F39	0 ... 600
F41	0 ... 1 000

Code	psi
H59	-30″ Hg ... 0
H73	-30″ Hg ... 15
H75	-30″ Hg ... 30
H2C	-30″ Hg ... 60
H78	-30″ Hg ... 100
H79	-30″ Hg ... 150
H81	-30″ Hg ... 220
H82	-30″ Hg ... 300
H15	0 ... 15
H1C	0 ... 20
H17	0 ... 30
H19	0 ... 60
H21	0 ... 100
H22	0 ... 160
H23	0 ... 200
H25	0 ... 300
H26	0 ... 400
H27	0 ... 600
H30	0 ... 1 000
H31	0 ... 1 500
H34	0 ... 3 000
H38	0 ... 6 000
H40	0 ... 10 000
H41	0 ... 15 000

MEX2 - MEX3 - MEM3

Industrial Pressure Gauges

Ordering details - MEX2 - MEX3 - MEM3

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

(▸ **Standard version)**

[1] Monel version nominal size 63 mm only and not available for pressure ranges x39, x40, x41 and x59
[2] NS50 not available as monel version MEM
[3] Available standard pressures ranges, see tables on page 2. For ranges not listed, please contact Baumer.

Ordering example with options

MEX	3	–	B	2	0	.	B22	/	0078	_	0769	_	0679

All stainless steel pressure gauge
Nominal size 63 mm
Back connection, front flange, 3 mounting holes, case material 1.4301
Process connection G 1/4
No liquid filling
Scale bar : 0 ... 10 bar
Option: ATEX Version with laminated safety glass included
Option: Restrictor screw Ø 0.3
Option: Adjustable friction pointer