



**BOURDON**  
The Original by Baumer

EN-837

PED

Lloyds 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

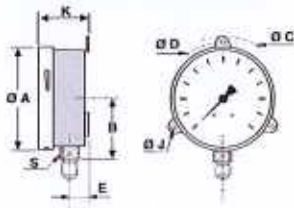
ATEX II2GDc-IM2c (Including window laminated safety glass)	Code 0078
Adjustable micro metric pointer (P ≥ 1.6 bar)	Code 0678
Adjustable friction pointer	Code 0679
Window laminated safety glass	Code 0751
Window polycarbonate	Code 0753
Blow out disc at the back	Code 0760
Restrictor screw Ø 0.5 (for fittings > 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

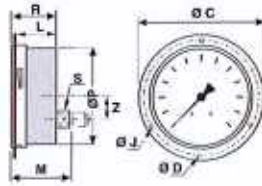
Material certificate 3.1 EN10204	Code Q1229
Calibration certificate EN837-1 (5 points raising and 5 points falling)	Code Q1070

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### Dimensions - Types of mounting



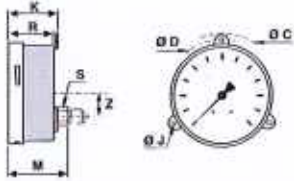
A (11)\*



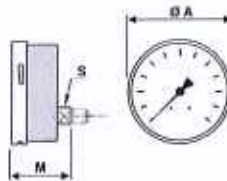
B (32)\*



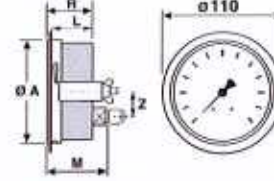
D (10)\*



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 <sup>2</sup>	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	/
<b>Model</b>	MEX	MEM				
All stainless steel pressure gauge						
Pressure gauge with monel Bourdon tube <sup>(1)</sup>						
<b>Nominal size</b>	5					
100 mm						
<b>Type of mounting</b>						
<b>Stainless steel case and bezel ring 1.4301 (AISI 304)</b>						
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
<b>Stainless steel case and bezel ring 1.4404 (AISI 316L)</b>						
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
<b>Process connection</b>						
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
<b>Liquid filling</b>						
Dry						0
BH1: low viscosity glycerin/water 86% (medium : -20 ... +70°C) <sup>(2)</sup>						1
BH2: high viscosity glycerin 99.5% (medium : 0 ... +90°C) <sup>(2)</sup>						2
BH3: silicone oil (medium : -40 ... +100°C) <sup>(2)</sup>						3
<b>Unit of measurement / Pressure ranges <sup>(3)</sup></b>						
bar						Bxx
psi						Hxx
kPa						Dxx
MPa						Exx
mbar						Nxx
kg/cm <sup>2</sup>						Fxx
bar / psi (double scale)						Kxx
psi / bar (double scale)						Sxx
psi / kPa (double scale)						Vxx
kPa / psi (double scale)						Wxx
kg/cm <sup>2</sup> / psi (double scale)						5xx
<b>Options to be added behind the / (see example below)</b>						

( ▶ Standard version)

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

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

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

**Ordering example with options**

