Baumer
Passion for Sensors

MA7

Absolute Pressure Gauge

BOURDON
The Original by Baumer

Main Features

- For corrosive process fluids and atmospheres
- Absolute pressure measurement
- Accuracy +/- 2 % F.S.
- Overpressure max. 25 bar
- Housing and wetted parts stainless steel
- Option: liquid-filled for applications with pulsations or vibrations

Applications

- Laboratory & Medical
- Oil & Gas / Chemical
- Water & Waste water
- Energy

Ex IP 65 P abs

Technical Data

Nominal size	150 mm
Measurement range	0 ... 0.1 to 0 ... 16 bar abs.
Overpressure	Selectable, max 25 bar (see table on page 2)
Accuracy	± 2 % for standard ranges (see table on page 2)
Protection rating	IP 65 (EN 60529)
Process connection	Stainless steel 1.4404 (AISI 316L)
Bellows	Stainless steel 1.4404 (AISI 316L) (1 bellow process connected, 1 bellow evacuated)
Case	Stainless steel 1.4301 (AISI 304)
Bezel ring	Stainless steel 1.4301 (AISI 304)
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
Safety	Pressure gauge with blow-out device Fulfills requirements for S1 gauges according to EN 837

Options

Polycarbonate window with index pointer adjustable by fixed button	Code 0052
ATEX II2GDc-IM2c *(Including window laminated safety glass)*	Code 0078
Adjustable micro metric pointer (P ≥ 0.6 bar)	Code 0678
Adjustable friction pointer	Code 0679
Window laminated safety glass	Code 0751
Window Plexiglas	Code 0752
Oxygen application	Code 0765
Laboratory cleanliness	Code 0835
Nuclear cleanliness	Code 0838

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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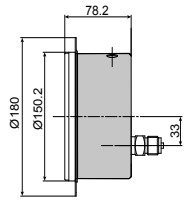
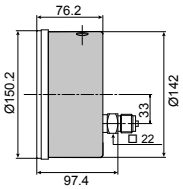
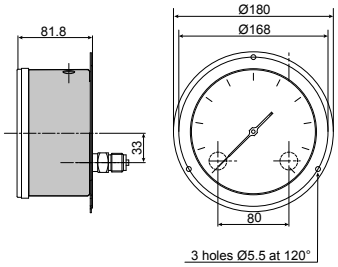
Dimensions - Types of mounting



TYP B



TYP F



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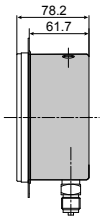
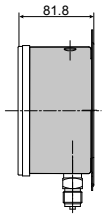
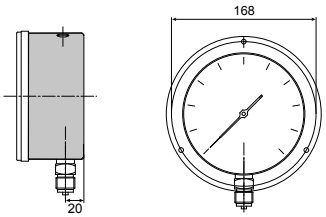


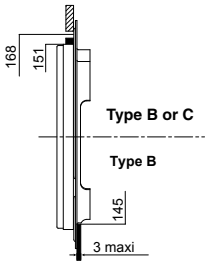
TYP C



TYP A



TYP D



Panel cut-out

Weight (kg)
Filled : 2.5
Unfilled : 1.6

Pressure ranges

Code	Bar
B08	0 ... 0.1
B09	0 ... 0.16
B10	0 ... 0.25
B11	0 ... 0.4
B12	0 ... 0.6
B15	0 ... 1
B16	0 ... 1.6
B18	0 ... 2.5
B19	0 ... 4
B20	0 ... 6
B22	0 ... 10
B24	0 ... 16

Code	kPa
D08	0 ... 10
D09	0 ... 16
D10	0 ... 25
D11	0 ... 40
D12	0 ... 60
D15	0 ... 100
D16	0 ... 160
D18	0 ... 250
D19	0 ... 400
D20	0 ... 600
D22	0 ... 1 000
D24	0 ... 1 600

Code	kg/cm²
F08	0 ... 0.1
F09	0 ... 0.16
F10	0 ... 0.25
F11	0 ... 0.4
F12	0 ... 0.6
F15	0 ... 1
F16	0 ... 1.6
F18	0 ... 2.5
F19	0 ... 4
F20	0 ... 6
F22	0 ... 10
F24	0 ... 16

Ordering code for maximum over pressure

A	C	D	E	F	G	H	J	K
1)	1)							
1)	1)	1)						
•	•	•	•					
•	•	•	•	•				
•	•	•	•	•	•			
	•	•	•	•	•	•		
		•	•	•	•	•	•	
			•	•	•	•	•	•
				•	•	•	•	1)
					•	•	•	•
						•	•	•
							•	•
Max. over pressure (bar)	**0.6**	**1**	**1.6**	**2.5**	**4**	**6**	**10**	**16**	**25**

- • Scale 270°, accuracy ± 2 % (± 3 % with liquid filling)
- 1) Scale 270°, accuracy ± 4 % (± 5 % with liquid filling)

MA7

Absolute Pressure Gauge

Ordering details MA7

	MA	7	–				.	xxx	.		/
Model											
Absolute pressure gauge	MA										
Nominal size											
150 mm		7									
			–								
Type of mounting & material											
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, front flange, 3 mounting holes				C							
Bottom connection				D							
Back connection, back flange for wall mounting, 3 mounting holes				E							
Back connection				F							
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, front flange, 3 mounting holes				3							
Bottom connection				4							
Back connection, back flange for wall mounting, 3 mounting holes				5							
Back connection				6							
Process connection											
G 1/2					3						
1/2 NPT					6						
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					
BH4 : low temperature silicone (medium : -60 ... +100°C)						4					
BH5 : Fluor carbon for oxygen use (medium : -15 ... +100°C)						5					
							.				
Unit of measurement / Pressure ranges											
Bar								Bxx			
psi								Hxx			
kPa								Dxx			
MPa								Exx			
kg/cm²								Fxx			
									.		
Overpressure											
See table on page 2										x	
Options to be added behind the / (see example below)											/

Ordering example with options

MA	7	–	B	6	0	.	B22	H	/	0078	_	0838

- Absolute pressure gauge
- Nominal size 150 mm
- Back connection, front flange, 3 mounting holes, case material 1.4301
- Process connection 1/2 NPT
- No liquid filling
- Scale bar : 0 ... 10 bar
- Max. over pressure : 10 bar
- Option : ATEX II2GDc-IM2c
- Option : Nuclear cleanliness