

MG5 Industrial pressure gauges with inductive contacts

All stainless steel pressure gauge with inductive contacts

MG5 - inductive contacts (80xx)

Can be used in corrosive gases and liquids that are not crystallizing

Fully welded process connection

Without or with dampening fluid

The mechanical components conform to the Pressure Directive PED 97/23/CE

Conforms to ATEX 94/9/CE (EN 60079-0/EN 60079-11)

LCIE 03 ATEX 6402X (MG5 replaces DRCE)

CE 0081



II 2 G

Ex ia IIC T6 or T5 or T4 Gb

Hazardous area: 1 and 2

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. All of the external components, together with the measurement element and connection are made of stainless steel.

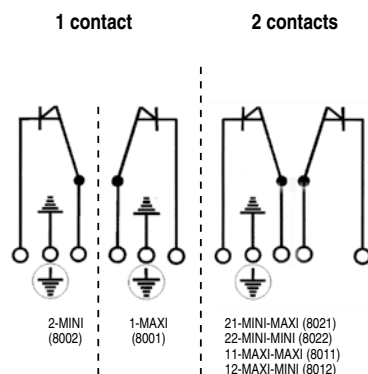


Technical Data (20°C)

Nominal size	100 mm						
Measurement range	-1 ... 0 to 0 ... 1600 bar						
Minimum ranges	<table border="1"> <thead> <tr> <th colspan="2">Inductive contacts (80xx)</th></tr> </thead> <tbody> <tr> <td>1 contact</td><td>2 contacts</td></tr> <tr> <td>1 bar</td><td>1.6 bar</td></tr> </tbody> </table>	Inductive contacts (80xx)		1 contact	2 contacts	1 bar	1.6 bar
Inductive contacts (80xx)							
1 contact	2 contacts						
1 bar	1.6 bar						
Accuracy class	1.6						
Protection rating	IP 65 (EN 60529)						
Process connection	G1/2, G1/4, 1/2 NPT, 1/4NPT						
Type	St. steel 1.4404 (AISI 316L)						
Matière							
Case	St. steel 1.4301 (AISI 304) (option 1.4404)						
Bezel ring	St. steel 1.4301 (AISI 304) (option 1.4404)						
Bourdon tube	St. steel 1.4404 (AISI 316L)						
Movement	St. steel						
Window	Instrument glass						
Window gasket	Elastomer						
Dial	Aluminium						
Pointer	Aluminium						
Temperature	Ambient -20 ... +70°C Process -40 ... +200°C (not filled) Process -20 ... +70°C (filled BH1) (The gauge temperature does not exceed +70°C) Storage -40 ... +70°C Drift ± 0,4% FS/10°C						
Electrical connection	Terminal block. Cable gland M20x1.5 Cable 7 to 13 mm.						

Block wiring diagram :

For each independant inductive contact : U nominal 8 Vdc - current consumption ≥ 3mA - Ci = 30 nF, Li = 100 uH



For inductif contact characteristics : AYRA relay for ATEX and Electrical output , see data sheet A21.33

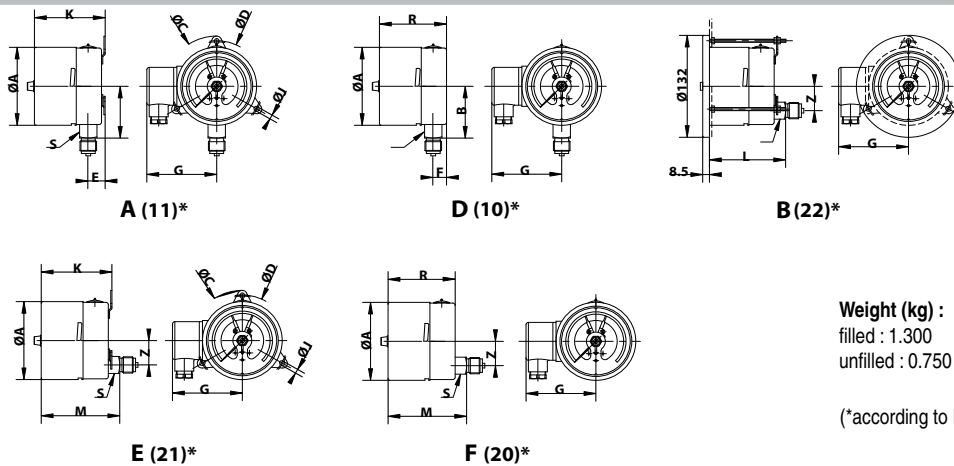
Options

Blow out disc at the back	Code 0760
Oxygen Application	Code 0765
Restrictor screw Ø 0.5	Code 0771
St. steel 1.4404 (AISI 316L) solid drawn Bourdon tube	Code 0816



Baumer

Dimensions - Types of mounting



	[mm]
A	101
B	67
C	134
D	118
E	21.5
F	17
G	89
J	5.5
K	89.5
L	96
M	99
R	85.5
S	22
Z	31.5

Weight (kg) :
filled : 1.300
unfilled : 0.750

(*according to EN837-1)

Panel cut-outs for types B = Ø 102 mm

Ordering Details - MG5

MG5xxxxxx	
Model	1' digit
Pressure gauge	M
Type of contacts	2' digit
Inductive contacts CEI (80xx)	G
Nominal size	3' digit
100 mm	5
Control functions	4' digit
Mini (8002)	1
Maxi (8001)	2
Mini-Maxi (8021)	4
Mini-Mini (8022)	5
Maxi-Maxi (8011)	6
Maxi-Mini (8012)	7
Mini (8002/8801)	J
Maxi (8001/8801)	L
Mini-Maxi (8021/8801)	K
Mini-Mini (8022/8801)	I
Maxi-Maxi (8011/8801)	M
Maxi-Mini (8012/8801)	N
Type of mounting	5' digit
Stainless steel case and bezel ring 1.4301 (standard)	A
Bottom connection, 3 back lugs fixing	B
Back connection, front flange, 3 mounting holes	D
Bottom connection	E
Back connection, 3 back lugs fixing	F
Back connection	
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
Process connection	6' digit
G1/4	2
G1/2	3
1/4NPT	5
1/2NPT	6
Liquid filling	7' digit
Dry	0
BH3 (silicone) (-40 ... +100°C)	3
BH5 (oxygen 160 bar max.) (-15 ... +100°C)	5
BH10 (paraffin vaseline oil) (-15 ... +100°C)	K
Unit of measurement	8' digit
bar	B
kPa	D
psi	H
Pressure ranges	9' ... 10' digit
See table	XX

code	bar	kPa	code	psi
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
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% F.S.

** See minimum measurement range for 1 and 2 contacts

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