

Precision Digital Pressure Gauge

Model MG400

Nominal size: 80 mm (3")

Accuracy: Upto Class 0.1 (0.1%)

Temperature compensated -10 to 50 °C

Features

- Protection IP66
- Temperature Compensated
- Zero and Span Calibration
- Backlight
- 10 Engineering Units
- Data logging
- Analog & Digital Outputs

Ranges

-15 ... 0 psi	upto 0 ... 70,000 psi
-1 ... 0 bar	upto 0 ... 5000 bar
-100 ... 0 kPa	upto 0 ... 500 MPa

Applications

Test benches
Calibration laboratories
Maintenance and repair shop
Process Automation



Technical specification	MG400		
Nominal size	80 mm		
Type	Range	Accuracy*	
Gauge	400 mbar to 2500 bar	0.1 % FS	
	4000 bar	0.3 % FS	
	5000 bar	0.5 % FS	
Absolute	1 bara to 70 bara	0.1% FS	
Compound	-1/0 bar to -1/35 bar	0.1% FS	
*Accuracy Including Linearity, Hysteresis, Repeatability errors from -10 to 50 C			
Overpressure limit	≤ 200 bar : 300%	≤ 1000 bar : 150%	≤ 5000 bar : 100%
Burst Pressure	≤ 700 bar : 400%	≤ 1000 bar : 200%	≤ 1500 bar : 150%
	≤ 5000 bar : 120%		
Process Units	kPa, MPa, Kg/Cm2, psi, mbar, bar, inHg, inH20, mmH20, mmHg		
Connection location	Lower		
Process Connection	1/4 NPT(M), G1/4 (M), 9/16 UNF (F)		
Display			
Type	LCD, 4 ½ Digit		
Backlight	On/Off, Automatic Off function		
Update rate	1,2,5,7 times per second (10 times in Peak function)		
Material			
Case	Die Cast Aluminum		
Sensor & Socket	SS 316L		
Power	3 AAA Battery (1000 hours), Optional 12 to 24 VDC		
Output	Optional analog O/P: -1/5 VDC, 0/5 VDC, 0/10 VDC, 4/20 mA Optional Digital O/P: RS232 external power source required		
Permissible			
Ambient temperature	-20 ... 70 °C		
Medium temperature	-20 ... 70 °C		
Storage temperature	-30 ... 80 °C		
Compensated temperature	-10 ... 50 °C		
Protection according	IP66		
Weight	350g		
Accessories	Adapters, Power Adapter, Analog output cables, etc.		
Options	Data logging (1 time per 1,3,5,60 sec), Max 10000 data Bracket for panel mounting		

All specifications are subject to change without notice.

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Order information

Size	Type	System Material	Execution	Process connection	Connection orientation	Range		Output	Options
(80) 80mm	MG400	(S) SS316	(R) IP66	(02) 1/4" NPT(M) ¹⁾ (MG9) G 1/4(M) ²⁾ (09) 9/16 UNF(F) ³⁾	(L) Lower	mbar	bar	(=) None	(PA1) Power Adapter (PA3) Power + Analog O/P + RS232 adapter (CD10) 10 point calibration certificate (CN10) 10 point NABL calibration certificate
						0/ 400	0/ 1	(15) 1/5 VDC	
						0/ 600	0/ 1.6	(42) 4-20 mA	
							0/ 2.5	(05) 0-5 VDC	
						bar	0/ 4	(10) 0-10 VDC	
						-1/ 0	0/ 6	RS232 is default for all analog output	
						-1/ 1	0/ 10	External power source is required for output	
						-1/ 3	0/ 16		
						-1/ 5	0/ 25		
						-1/ 9	0/ 30		
						-1/ 15	0/ 40		
						-1/ 24	0/ 60		
						-1/ 30	0/ 100		
						-1/ 35	0/ 160		
							0/ 250		
						barA	0/ 300		
						0/ 1	0/ 400		
						0/ 1.6	0/ 600		
						0/ 2.5	0/ 700		
						0/ 4	0/ 1000		
						0/ 6	0/ 1500		
						0/ 10	0/ 1600		
						0/ 16	0/ 2500		
						0/ 25	0/ 4000		
						0/ 30	0/ 5000		
						0/ 40			
						0/ 60			
						0/ 70	units selectable		

1) Maximum pressure 700 bar 2) maximum pressure 400 bar 3) for ranges 1000 bar and above

How to order

Size	Type	System material	Execution	Process connection	Connection orientation	Range	Engineering unit	Power/Output	Option
80	MG400	S	L	02	L	0/100	BAR	=	NH

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