

# Precision Digital Pressure Gauge

## Model MG301 Pro

Nominal size: 100 mm (4")

Accuracy: Class 0.25 (0.25%)

### Features

- 5 & 6 Digit Large LCD Display
- Bright Backlight
- 23 Standard and 4 User defined Units
- Protection IP65
- SS316L Wetted Parts & Casing
- Optional Data Logging, Analog Output, Switching O/P, DC powered
- Optional Communication Bluetooth, RS485

### Ranges

100 mbar to 1000 bar in Gauge, Vacuum & Compound

### Applications

Calibration laboratories

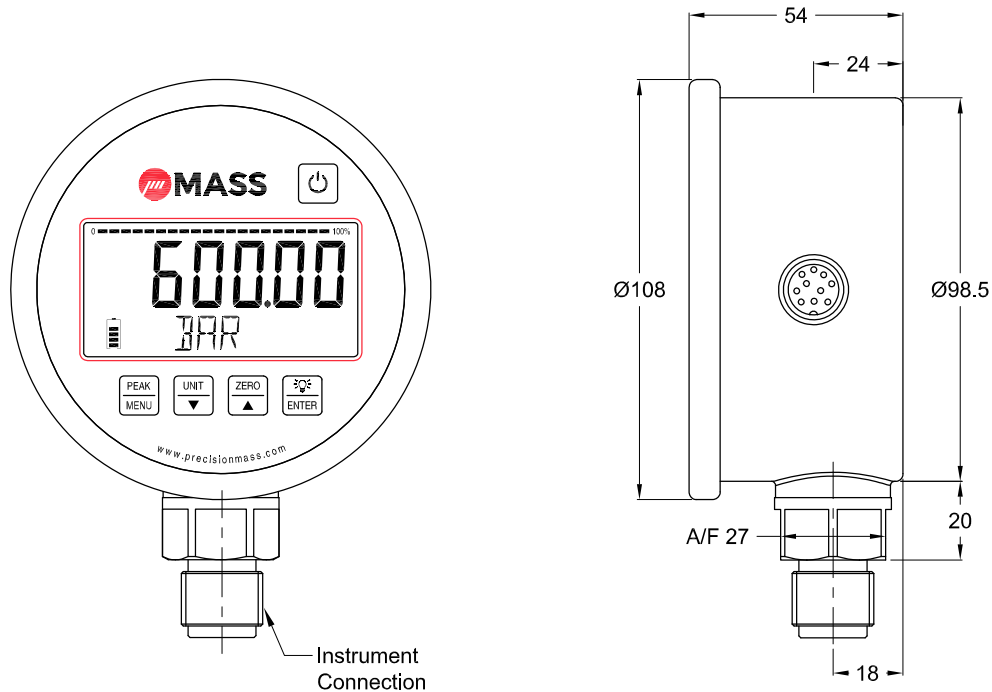
Test benches

Process Automation

Technical specification	MG301 Pro
Nominal size	100 mm
Measuring Principle	Piezo resistive Sensors
Accuracy	0.25 % F.S. (Accuracy Including Linearity, Hysteresis, Repeatability errors)
Range in bar mbar	-1/0 -1/2 -1/7 -1/10 -1/30 0/70 0/100 0/350 0/700 0/1000 0/100 0/250 0/600
Overpressure limit	130% of scale, Max 1100 bar
Units	bar, mbar, kg/cm <sup>2</sup> , atm, psi, Pa, hPa, kPa, MPa, mmH <sub>2</sub> O, cmH <sub>2</sub> O, mH <sub>2</sub> O, inH <sub>2</sub> O (4c), inH <sub>2</sub> O (20C), inH <sub>2</sub> O (60F), ftH <sub>2</sub> O, mmHg, cmHg, inHg (0C), inHg (60F), kN/m <sup>2</sup> , lbf/ft <sup>2</sup> , torr & 4 user defined units
Connection location	Lower
Process Connection	1/2 BSP(M), Others on request.
Display Type Character Height Backlight	LCD, 5 Digit 99999 counts and 6 Digit 999999 counts 0.67" (17 mm) On/Off, Automatic Off function (Never, 10s, 30s, 1 min, 5 min)
Material Case Sensor and Socket	SS 316L SS 316L
Power	3 AA Alkaline Battery 2000 Hrs. at standard use 12-24 VDC
Features	Zero Clear, Auto Off, Min/Max Indicator, Bar Graph (20 Segment) Battery Indication (5 Segment), Update rate (100, 200, 500, 1000 ms) Dampening (None, Low, Medium, High), Tare (User definable) Digit Selection (5/6), Process pressure % indicator (User definable) Password Protection for calibration and special functions (user selectable)
Optional Features	Data Logging up to 32000 records with Bluetooth Communication Analog Output 4-20 mA Dual Switch O/P with adjustable dead band RS485 Communication
Permissible Ambient temperature Medium temperature Storage temperature Compensated temperature	0 ...70 °C -10 ...50 °C -30 ... 80 °C +10 ... 50 °C
Certification	Manufacturer calibration certificate, optional NABL Certificate
Weight	430 grams
Protection	IP65 as per IEC 60529
Accessories	Adapters (Regular/Swivel)

All specifications are subject to change without notice.

## General dimensions in mm



## Order information

Size	Type	System Material	Process Connection	Connection orientation	Range	Output	Options
(100) 100mm	MG301P	(S) SS316L	(15) 1/2" BSP (M)	(L) Lower	<b>MBAR</b> 0/ 100 0/ 250 0/ 600  <b>BAR</b> -1/ 0 -1/ 2 -1/ 7 -1/ 10 -1/ 30 0/ 70 0/ 100 0/ 350 0/ 700 0/ 1000  Others on request	(=) None (42) 4-20mA <sup>1)</sup> (S2) 2 x switch O/P <sup>1) 2)</sup> (R4) RS 485 <sup>1)</sup>	(TU) Throttle Plug  (DL) Data Logging with Bluetooth connectivity  (CD4N) ISO17025 (NABL) Calibration Certificate

1) 24 VDC power supply is required

2) V max = 30 VDC, A max = 1 A

## How to order

Size	Type	System material	Process connection	Connection orientation	Range	Engineering unit	Output	Option
100	MG301P	S	15	L	0/100	BAR	42	DL

## Precision Mass Products Pvt. Ltd.

Plot No.: 2306, G.I.D.C. Chhatral, Ta: Kalol, Dist.: Gandhinagar,  
Chhatral -382729, Gujarat, India.

Telephone: +91-2764 233681/82/83

Email: sales@precisionmass.com

Fax: +91-2764-233440

www.precisionmass.com

- North Zone : sales.delhi@precisionmass.com
- East zone : sales.kolkata@precisionmass.com
- West zone : sales.mumbai@precisionmass.com
- South zone : sales.chennai@precisionmass.com