



## SERIES: DG50

- HIGH ACCURACY ( $\pm 0.2\%$  F.S.)
- 4-DIGIT LCD DISPLAY
- STAINLESS STEEL CASE
- IP-67 PROTECTION (WATERPROOF)
- LONG BATTERY LIFE (2 AA)
- LOW BATTERY WARNING
- TEMP. COMPENSATION (OPTION)
- DIAPHRAGM SEALS (OPTION)
- AVAILABLE RANGES:  
VACUUM TO 6000 PSI (400 BAR)



### INTRODUCTION

Indumart *DG50 Series* Digital Pressure Gauges / Test Gauges are high-accuracy, high-resolution pressure indicators. Because of their robust design, these gauges meet stringent demands and can be used in critical industrial applications where particular importance is attached to measuring accuracy, reproducibility, long term stability and protection against water immersion and dust penetration.

The electronics and sensing element of the *DG50 Series* are housed in a 4" diameter, stainless steel case. The measuring element is an alumina ceramic diaphragm strain gauge, compatible with most gases and liquids. When used for food applications, the *DG50 Series* may be supplied with hygienic fittings, and for viscous or corrosive media services diaphragm seals can be included at the time of ordering.

The four-digit, 12.7 mm high LCD display can show pressure measurements in either of the two selected units of measurements. The two units of measurements are selected by the customer at the time of ordering and operators may switch between the two units at the site.

As a standard practice, all *DG50 Series* are calibrated at 20°C. If working constantly at a higher or a lower temperature, the instrument can be calibrated to the user specifications. If operating at a significant temperature range, temperature compensation option may be ordered to correct zero and span drifts.

Covering a wide range of test and measurement applications, the *DG50* Pressure Gauges are available in several ranges from vacuum up to 6000 psi (400 bar).

## SPECIFICATIONS

<b>Accuracy</b>	±0.2% of full scale
<b>Case &amp; Bezel</b>	304 stainless steel
<b>Case Diameter</b>	100 mm
<b>Display</b>	4-digit LCD; 12.7 mm high
<b>Sensor</b>	Alumina ceramic (Al <sub>2</sub> O <sub>3</sub> ) diaphragm strain gauge
<b>Connection</b>	Back, bottom; 1/4" male; St. steel
<b>Pressure Ranges</b>	Variable ranges: vacuum up to 6000 psi - see the table
<b>Over Pressure</b>	1.25 x max. pressure
<b>Temp. Compensation</b>	-10...+60°C (Option)
<b>Storage Temp.</b>	-20...+85°C
<b>Ambient Temp.</b>	-10...+60°C
<b>Medium Temp.</b>	-20...+100°C
<b>Case Temp.</b>	-10...+60°C
<b>Power</b>	3 VDC; 2 x 1.5 V "AA Cells"
<b>Battery Life</b>	1 year @ 2 sec. update rate
<b>Low Power Warning</b>	Display will alternate between pressure reading and BATT
<b>Display Update Rate</b>	2 sec. / 0.5 sec. - selectable
<b>Protection Class</b>	IP-67
<b>Weight</b>	2 lb (900 g)

Specifications may change without prior notice

## PRESSURE RANGES & PERFORMANCE SPECIFICATIONS

Code	Range†			Accuracy %
	kPa	PSI	Bar	
1	-100...+100	-14.5...+15	-1...+1	±0.25% f.s
2	0...50	0...7.5	0...0.5	±0.25% f.s
3	0...100	0...15	0...1	±0.20% f.s
4	0...200	0...30	0...2	±0.20% f.s
5	0...500	0...75	0...5	±0.20% f.s
6	0...1000	0...150	0...10	±0.20% f.s
7	0...2000	0...300	0...20	±0.20% f.s
8	0...5000	0...750	0...50	±0.20% f.s
9		0...1500	0...100	±0.20% f.s
10		0...3000	0...200	±0.20% f.s
11		0...5000	0...350	±0.20% f.s
12		0...6000	0...400	±0.20% f.s

\* Accuracy includes: Linearity + Hysteresis + Repeatability

† Other available measurement units are: mm H<sub>2</sub>O, cm H<sub>2</sub>O, in H<sub>2</sub>O, mm Hg, in Hg, mbar and MPa.

Above figures are for instruments operating at the calibration temperature of 20°C. For temperature compensated instruments working at other temperatures add ±0.01%/°C zero drift and ±0.01%/°C span drift. For uncompensated sensors add ±0.05%/°C zero drift and ±0.04%/°C span drift.

## Ordering DG50

DG50					
Bottom Connection	<input checked="" type="checkbox"/> B				
Back Connection	<input checked="" type="checkbox"/> R				
Calibration Certificate	<input checked="" type="checkbox"/> C				
None	<input checked="" type="checkbox"/> X				
Temperature Compensation Required	<input checked="" type="checkbox"/> T				
Not Require	<input checked="" type="checkbox"/> X				
Pressure Range (code from above Table)					
Units of Pressure (select two pressure units from above Table)					

EXAMPLE: DG50BXT6bar/psi

## DIMENSIONS (mm)

