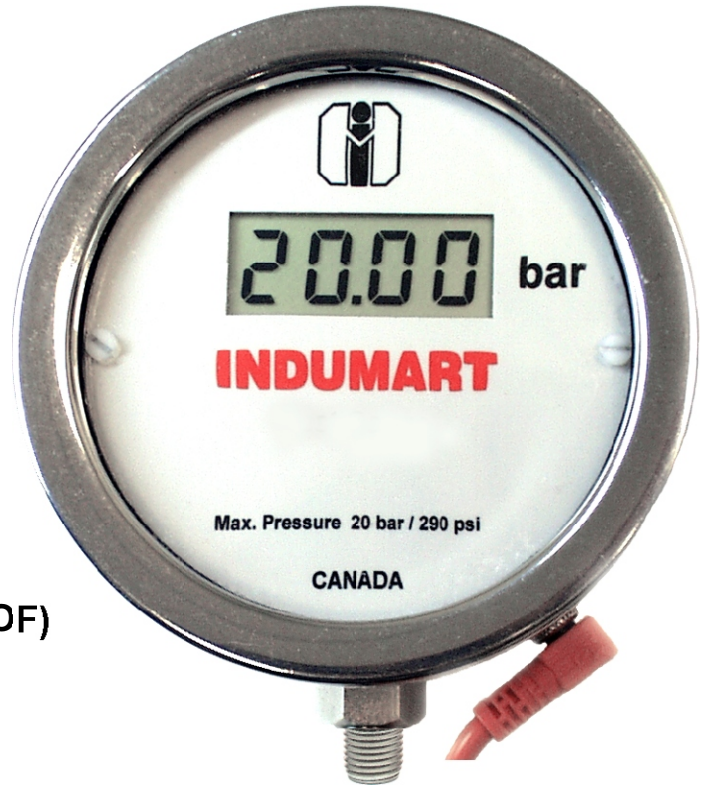




SERIES: DGT50

- **HIGH ACCURACY ($\pm 0.2\%$ F.S.)**
- **4-20 mA OUTPUT**
- **LOOP POWERED (2-WIRE)**
- **10:1 TURN DOWN CAPABILITY**
- **4-DIGIT LCD DISPLAY**
- **DUAL UNIT DISPLAY**
- **STAINLESS STEEL CASE**
- **ZERO AND SPAN ADJUSTMENTS**
- **IP-67 PROTECTION (WATERPROOF)**
- **INTRINSICALLY SAFE (OPTION)**
- **AVAILABLE RANGES:**
VACUUM TO 6000 PSI (400 BAR)



INTRODUCTION

Indumart *DGT50 Series* Indicating Digital Pressure Transmitter is both a high-accuracy and high-resolution pressure indicator and a range-adjustable transmitter in one stainless steel enclosure. Because of its robust design, this pressure instrument 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 *DGT50 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.

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.

Turndown ratio of up to 10, accuracy of 0.2% and availability of the intrinsically safe model are the definite advantages of the DGT50 series.

Calibration of the transmitters's 4-20 mA loop circuit is easy and can be performed at site. As a standard practice, all *DGT50 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. Temperature compensation is also available and can be added as an optional feature.

The *DGT50 Series* is available in several ranges from vacuum to 6000 psi (400 bar).

**FOR THE BATTERY-OPERATED
VERSION WITH NO OUTPUT SEE
MODEL DG50 PRESSURE GAUGES**

SPECIFICATIONS

Accuracy	±0.2% f.s.
Case	304 St. steel with bezel
Case Diameter	100 mm
Display	4-digit LCD; 12.7 mm high
Sensor	Alumina ceramic (Al ₂ O ₃) diaphragm strain gauge
Connection	Back, Bottom; 1/8" male; St. steel
Pressure Ranges	Variable ranges: vacuum up to 6000 psi - see the table
Over Pressure	1.25 x max. pressure
Electrical Connector	M8 sensor type, 3-pole. Mating plug with 2 m cable
Loop Ranging	Adjustable; Minimum 4-20mA transmission span is 10% of the transmitter's full-scale
Loop Supply	10...32 VDC
Voltage Drop	8.5 V minimum
Loop Protection	Reverse polarity protected
Temp. Compensation	-10...+60°C (Option)
Storage Temperature	-20...+85°C
Ambient Temperature	-10...+60°C
Medium Temperature	-20...+100°C
Case Temperature	-10...+60°C
Protection Class	IP-67
Weight	1.9 lb (850 g)

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 H₂O, cm H₂O, in H₂O, 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 DGT50

DGT50 [] [] [] [] [] []

Bottom Connection **B**
Back Connection **R**

Calibration Certificate **C**
None **X**

Temperature Compensation **T**
Not Require **X**

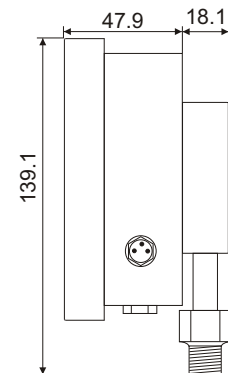
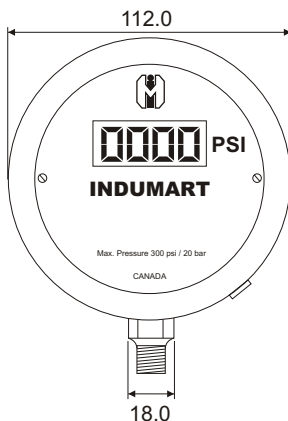
Intrinsically Safe **S**
Standard **X**

Pressure Range _____

Units of Pressure _____

EXAMPLE: DGT50BXTX6bar/psi

DIMENSIONS (mm)



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