

### Features

- ▶ **Field Rugged** - 4 ½" 300 Series SS case with safety blow-out protection
- ▶ **Safe** - Intrinsically safe: design complies with requirements for use in Class 1, Group A,B,C and D areas (Approval Pending)
- ▶ **Precise Measurements** - 0.1% of reading accuracy for the range of 20-100% of span.
- ▶ **Versatile** - 9 pressure ranges to 5000 psig.. all ranges feature vacuum to 29.5" Hg
- ▶ **Temperature Compensation** - accuracy not de-rated over the range 14-122 deg F.
- ▶ **316 SS Sensors** - isolated pressure sensors are compatible with many corrosive media
- ▶ **High Resolution LCD** - oversized 0.65" digits enhance readability in poor lighting
- ▶ **Low Power Circuitry** - 3AA alkaline batteries provide for 1500 hours of continuous operation
- ▶ **Data Storage** - keypad addressable Hi/Lo pressure values
- ▶ **Field Re-Calibration** - Keypad re-calibratable using acceptable pressure calibration standards



### PRODUCT DESCRIPTION

The DTG-6000 from 3D Instruments, a 4 ½" Digital Test Gauge, incorporates the ultimate in pressure measurement technology to address the calibration requirements of current process monitoring and control devices.

Outstanding pressure sensors from 0-15 to 0-5000 psi provide accuracy of 0.1% of reading from 20-100% of span. Temperature compensation circuitry maintains this accuracy over an operating temperature range of 14° to 122°F. Wetted components are 316SS for compatibility with many process fluids. A 5 digit LCD with 0.65" digits and high contrast provides for superior resolution and readability.

The DTG-6000 is housed in an electro-polished 300 series SS case with elastomeric seals. All controls including: Power, Zero, Eng. Units and Hi/Lo are selectable via the Lexan keypad for reliable operation in adverse weather conditions. To reduce maintenance, 1500 hour battery life is provided courtesy of a RISC (Reduced Instruction Set Computer) type microprocessor.

The combination of sophisticated precision pressure measurement technology, robust design and a wide array of pressure ranges makes the Digital Test Gauge family of pressure gauges the ideal choice to tackle your demanding pressure monitoring or Test and Calibration applications.

## MOUNTING FLANGE



## OPTIONS

*3D  
Instruments  
The "Direct  
Drive  
Difference"  
in Digital*

## DTG-CAL KIT



## GENERAL SPECIFICATIONS

**Accuracies:** 0.1% of reading for 20-100% of span; 0.02% FS from 0-20% of span and 2% FS (FS=14.5 psi) for vacuum region includes all variations due to non-linearity, hysteresis, repeatability and temp. over the Operating range.

### Ranges/Resolutions:

PSI	Resolution	Over Pressure (PSI)
0-15	0.001	100
0-30	0.001	100
0-100	0.01	200
0-300	0.01	600
0-500	0.01	1000
0-1000	0.1	2000
0-2K/3K	0.1	4500
0-5000	0.1	7500

### Environmental:

Operating range: 14 to 122°F (-10 - 50°C)  
Storage range: -4 to 158°F (-20 - 70°C)

### Power:

3 x AA alkaline batteries deliver 1500 hours continuous service@68°F.

### Display:

5 digit LCD, 0.65" high  
Engr. Unit indication  
Low Battery Indicator Battery Icon  
Hi/Lo Pressure Icons  
Dead Battery - dashed lines across display

### Case:

300 Series Stainless Steel

### Pressure Sensors:

Media compatibility: media compatible with 316SS. Display flashes at 110% FS.

### Process Connection:

1/4" NPT (male) - 316 SS with integral sintered SS filter

### Dimensions:

4.8"(W) x 2.46" (D) x 6.09"(L)

### Weight:

22 oz (635 gms)

## FEATURES

### Selection of Engr. Units\*:

PSI, mBar, Bar, kPa, kg/cm<sup>2</sup>, inHg, mmHg, inH<sub>2</sub>O, mmH<sub>2</sub>O

\*not all units enabled for all ranges

### Power Management:

Auto shut-off after 20 min., if no keys are pressed.  
Field defeatable

### Screen Update Rate:

3x per second

### Hi/Lo:

Capture and query the High and Low pressure values

### Tare:

0 to 100% FS zero offset capability

### RS-232 (optional):

Special RS-232 cable is required

### Mounting Flanges (optional):

Front or back 300 Series SS - welded on the DTG case

## ORDERING INFORMATION

Example: 4 1/2" DTG-6000 with 300 Series SS case, 0-3000 psi sensor  
no mounting flange, bottom 1/4" NPT male fitting: 65514-33B55

① **65514** - ② **XX** ③ **B** ④ **XX** ⑤ **XXX**

① **Product Description:** 4 1/2" DTG-6000 with 300 Series SS case

② **Pressure Range Codes:** (all ranges include vacuum measurement to: 29.5" hg)

15: 0-15 psig      23: 0-100 psig      27: 0-500 psig      32: 0-2000 psig      35: 0-5000 psig  
21: 0-30 psig      26: 0-300 psig      29: 0-1000 psig      33: 0-3000 psig

③ **Process Connection:** 1/4" NPT male

④ **Connection Position and Mounting Flange Codes:**

15: Flange Front, Bottom Fitting      35: Flange Back, Bottom Fitting      55: Flange None, Bottom Fitting  
25: Flange Front, Back Fitting      45: Flange Back, Back Fitting      65: Flange None, Back Fitting

⑤ **Option Codes:** leave blank if no options are required

**PNO:** DTG-Cal Kit #1 - includes a DTG-6000, Model 8110-300: 0-300 psi Pneumatic Handpump, Hose kit and Series-200 ABS waterproof carrying case

**PRO:** DTG-Cal Kit #2 - includes a DTG-6000, Model 8111-300: Vacuum/0-300 psi Duplex Handpump, Hose kit and Series-200 ABS waterproof carrying case

**PUO:** DTG-Cal Kit #3 - includes a DTG-6000, Model 8112-3000: 0-3000 psi Hydraulic Handpump, Hose kit and Series-200 ABS waterproof carrying case

**GCO:** NIST traceable Calibration Certificate w/data. A NIST traceable Certificate of Conformance is supplied with each unit.

**RAA:** Custom RS-232 cable (3D P/N: 4025-0005)

AN ISO 9000



REGISTERED COMPANY

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