



Features

- **Intrinsically Safe** - Built to comply with requirements for Class 1, Division 1, Groups A, B, C and D hazardous areas
- **Ultra-Low Power Circuitry** - A 3.6 V Lithium battery provides for **5 years continuous service**. Programmable auto shut-off included
- **Precise Measurements** - 0.25% of FS. Pressure ranges from 0-50 to 0-9999 psig - all ranges capable of full vacuum
- **Temperature Compensation** - accuracy not de-rated over the temperature range 32- 131 deg F
- **Analog/Digital Display** - 4 digit (0.75" high) LCD with 25-segment bar graph
- **Field Ready** - 4 1/2 ABS case w/ safety blow-out. Fitting is adjustable from bottom to back in the field
- **316 SS Sensors** - designed for aggressive media. 2x overpressure
- **Damping** - stabilize readings with adjustable LCD filter
- **Hi/Lo** - Capture/display pressure extremes
- **Options** - Chemical seals and SS case



Product Description

The DPG-6600 from 3D Instruments, a 4 1/2" battery powered digital pressure gauge, incorporates outstanding pressure sensors from 0-50 to 0-9999 psig to provide accuracy of 0.25% of full scale. Special temperature compensation circuitry maintains this accuracy fixed over a temperature range of 32° to 131° F!! Wetted components are 316SS for compatibility with many aggressive process medias.

A special 4-digit LCD with oversized 0.75" digits coupled with a 25-segment analog bar graph combine to provide unsurpassed readability. Other features include: multiple engr. units, display dampening, low battery indication and display of Hi/Lo values.

The DPG-6600 is housed in an ABS case outfitted with an ingenious field adjustable process connection fitting/flange arrangement. All functions including: Power, Zero, Engr. Units and Hi/Lo are selectable via a Polyester keypad for reliable operation in poor weather conditions. To reduce maintenance, a high energy lithium cell and low power circuitry offer an incredible 5 year battery life! An auto shut-off feature allows adjustment from 0-720 minutes.

The combination of sophisticated precision pressure measurement technology, robust design and a wide array of pressure ranges makes the DPG-6600 family of digital pressure gauges the ideal choice to tackle your demanding pressure monitoring or test/calibration applications.

DPG-6600 Digital Pressure Gauge

General Specifications

Accuracy:

Positive pressure: 0.25% of full scale (Full scale = positive span). Vacuum accuracy: 0 - 100 psig and below: +/- .3 psig; 200-1000 psig: +/- 1 psig; 2500 psig and above: unrated. Includes as variations due to non-linearity, hysteresis, repeatability and temperature over the Compensated range.

Range (PSI)	Resolution	Over Pressure(PSI)
-14.5 - 50	0.1	100
-14.5 - 100	0.1	200
-14.5 - 200	0.1	400
-14 - 500	1	1000
-14 - 1000	1	2000
0 - 2500	1	5000
0 - 5000	1	10000
0 - 9999	1	20000

Environmental

Compensated range: 32 to 131°F (0 to 55 C)
 Operating range: -40 to 185°F (-40 to 85°C)
 Storage range: -40 to 185°F (-40 to 85°C)

Sensors:

Media-isolated. Suitable for gases and liquids compatible with 316SS. Burst Pressure: 5X or 25,000 psi, whichever is less.

Battery:

1- 3.6 volt lithium "C" size cell
 5 year of continuous operation

LCD:

4 digit; 25-segment bar graph

Case/Flange material:

ABS plastic or 300 series SS; neoprene blow-out plug

Process Connection:

1/4" NPTM - 316SS

Keypad:

4 sealed membrane switches - Polyester

Dimensions: (Bottom connect)

4.78"(w) x 2.50"(D) x 6.58"(L)

Weight:

514g (18 oz) including battery

Features

Engineering Units:

Psig, inH₂O, InHg, mmH₂O, mmHg, Bar, mbar, Kg/cm². Custom units can be programmed in. **Note: Not all engr. units available on all pressure ranges.**

Damping:

Adjustable LCD filter - approximately 1-96 seconds

Screen Update Rate:

1x per second

Hi/Lo:

Capture/query stored Hi/Lo pressure values

Tare:

0 to 20% FS zero offset capability

Power Management:

Auto shutoff adjustable from 0-720 minutes

Low Battery Indication:

Two indicators: 1st alternating reading of pressure and L.Bat, 2nd: a continuous reading of L.Bat

Ordering Information

Example: 4 1/2" DPG-6600 with black ABS case

0-5000 psi sensor, bottom 1/4" NPT male fitting: 66544-35B71

① 66544 **②** -XX **③** B **④** XX **⑤** XXX

① Product Description: Battery Powered 4 1/2" DPG-6600

② Pressure Range Codes:

18: -14.5 - 50 psig **25:** -14.5 - 200 psig **29:** -14 - 1000 psig **35:** 0 - 5000 psig
23: -14.5 - 100 psig **27:** -14 - 500 psig **47:** 0 - 2500 psig **38:** 0 - 9999 psig

③ Process Connection: 1/4" NPT male

④ Case Type/Process Connection: (mounting flange detached is supplied standard with ABS case)

71: black ABS case, fitting bottom, flange detached (standard configuration)
15: SS case, fitting bottom, flange front **25:** SS case, fitting back, flange front
35: SS case, fitting bottom, flange back **45:** SS case, fitting back, flange back
55: SS case, fitting bottom, flange none **65:** SS case, fitting back, flange none

⑤ Option Codes: (leave blank if no options are required)

PNO: DPG-Cal Kit #1 – includes a DPG-6600, Model 8110-300: 0-300 psi Pneumatic Handpump, Hose Kit and Series-200 ABS waterproof carrying case

PRO: DPG-Cal Kit #2 – includes a DPG-6600, Model 8111-300: Vacuum/0-300 psi Duplex Handpump, Hose Kit and Series-200 ABS waterproof carrying case

PUO: DPG-Cal Kit #3 – includes a DPG-6600, Model 8112-3000: 0-3000 psi Hydraulic Handpump, Hose Kit and Series-200 ABS waterproof carrying case

GC01: Calibration Certificate Level # 1 – 13 readings in both ascending and descending pressures at room temperature

GC02: Calibration Certificate Level # 2 – 13 readings in both ascending and descending pressures done at three distinct temperatures..typically: 22°C, 5°C and 45°C



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