

# DIGITAL PRESSURE GAGE

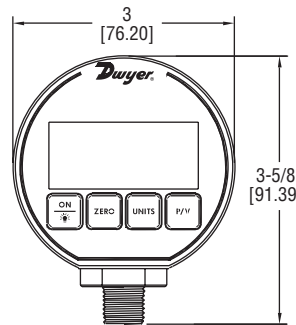
±0.25% or ±0.5% FS Accuracy, NEMA 4X (IP66) Aluminum Housing



DPG-000



DPG-100



Replace your outdated analog gages with the new **SERIES DPG** Digital Pressure Gage. The Series DPG has a high  $\pm 0.25\%$  or  $\pm 0.5\%$  full-scale accuracy. The 4 digit digital display will reduce the potential for errors in readings by eliminating parallax error commonly produced with analog gages. Series DPG is battery powered and has an auto-shut off to conserve battery life. Battery life, on average, will last 2000 hours. A 4 button key pad allows easy access to features without the need to work through complex menus or difficult key combinations. These features include backlight, peak and valley, tare or auto zero and conversion of the pressure units.

**FEATURES/BENEFITS**

- High accuracy provides exceptional measurement minimizing costly out of specification conditions
- Backlit 4-digit display provides clear parallax-free reading reducing potential for errors
- Battery-powered gage with auto-shutoff eliminates wiring and prolongs battery life reducing service calls
- Push-button zero reduce installation and service time

**APPLICATIONS**

- Process applications
- Replacement for legacy analog gages
- OEM applications

**ACCESSORIES**

| Model | Description            |
|-------|------------------------|
| A-183 | Protective rubber boot |
| A-184 | Carrying case          |



DPG-100 with Protective Rubber Boot



Protective Carrying Case

**SPECIFICATIONS**

**Service:** Compatible liquids and combustible gases (for FM listing see Agency Approvals below).  
**Wetted Materials:** Type 316L SS.  
**Housing Materials:** Polycarbonate front & back cover, anodized aluminum extruded housing with recessed grooves, polycarbonate overlay, Buna-N O-rings, 316L SS sensor construction.  
**Accuracy:** DPG-000:  $\pm 0.5\%$  FS; DPG-100:  $0.25\%$  FS;  $\pm 1$  least significant digit @ 70°F (21°C) (includes linearity, hysteresis, repeatability).  
**Pressure Limit:** 2x pressure range for models  $\leq 1000$  psi; 5000 psi for 3000 psi range; 7500 psi for 5000 psi range.  
**Enclosure Rating:** Designed to meet NEMA 4/4X (IP66).  
**Temperature Limits:** 0 to 130°F (-18 to 55°C).  
**Thermal Effect:** Between 70 to 130°F is 0.016%/F; Between 32 to 70°F is 0.026%/F; Between 10 to 32°F is 0.09%/F.  
**Size:** 3.00" OD x 1.90" deep (max).  
**Process Connection:** 1/4" male NPT.  
**Weight:** 8.84 oz (275 g).  
**Display:** 4 digit (.425" H x .234" W digits).  
**Power Requirements:** (2) AAA alkaline batteries, included, user replaceable.  
**Battery Life:** 2000 hours typical; Low battery indicator.  
**Auto Shut-Off:** Gage: 60 minute auto shut off. Auto shut-off may be disengaged; Backlight: 2 minute auto shut-off.  
**Agency Approvals:** DPG-000: CE; DPG-100: CE, FM approved to be intrinsically safe for Class I, Division I, Groups A, B, C and D, for ranges 0-15 to 0-3000 psi.

**OPTION**

| To order add suffix:         | Description                            |
|------------------------------|--|
| -NIST                        | NIST traceable calibration certificate |
| <b>Example:</b> DPG-002-NIST |  |

| MODEL CHART       |                    |                 |                    |                 |                 |                 |                 |                    |                 |               |               |                 |
|-------------------|--------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|--------------------|-----------------|---------------|---------------|-----------------|
| Model $\pm 0.5\%$ | Model $\pm 0.25\%$ | Range psi       | Pressure Ranges    |                 |                 |                 |                 |                    |                 |               |               |                 |
|                   |                    |                 | kg/cm <sup>2</sup> | bar             | in Hg           | ft w.c.         | kPa             | oz/in <sup>2</sup> | in w.c.         | mbar          | cm w.c.       | mm Hg           |
| DPG-000*          | -                  | -14.70 to 0     | -1.033             | -1.013          | -29.93          | -33.94          | -101.4          | -235.2             | -407.3          | -1013         | -1034         | -760.7          |
| DPG-002*          | DPG-102            | 15.00           | 1.055              | 1.034           | 30.54           | 34.61           | 103.4           | 240                | 415.2           | 1034          | 1055          | 775.7           |
| DPG-003*          | DPG-103            | 30.00           | 2.109              | 2.069           | 61.08           | 69.21           | 206.9           | 480                | 830.4           | 2069          | 2109          | 1551            |
| DPG-004*          | DPG-104            | 50.00           | 3.515              | 3.448           | 101.8           | 115.4           | 344.8           | 800                | 1384            | 3448          | 3515          | 2586            |
| DPG-005*          | DPG-105            | 100.0           | 7.03               | 6.895           | 203.6           | 230.7           | 689.5           | 1600               | 2768            | 6895          | 7031          | 5172            |
| DPG-006*          | DPG-106            | 200.0           | 14.06              | 13.79           | 407.2           | 461.4           | 1379            | 3200               | 5536            | -             | -             | -               |
| DPG-007*          | DPG-107            | 300.0           | 21.09              | 20.69           | 610.8           | 692.1           | 2069            | 4800               | 8304            | -             | -             | -               |
| DPG-008*          | DPG-108            | 500.0           | 35.15              | 34.48           | 1018            | 1154            | 3448            | 8000               | -               | -             | -             | -               |
| DPG-009*          | DPG-109            | 1000            | 70.3               | 68.98           | 2036            | 2307            | 6895            | -                  | -               | -             | -             | -               |
| DPG-010*          | DPG-110            | 3000            | 210.9              | 206.9           | 6108            | 6921            | -               | -                  | -               | -             | -             | -               |
| DPG-011*          | DPG-111*           | 5000            | 351.5              | 344.8           | -               | -               | -               | -                  | -               | -             | -             | -               |
| DPG-020*          | -                  | -14.70 to 15.00 | -1.033 to 1.055    | -1.013 to 1.034 | -29.93 to 30.54 | -33.94 to 34.61 | -101.4 to 103.4 | -235.2 to 240      | -407.3 to 415.2 | -1013 to 1034 | -1034 to 1055 | -760.7 to 775.7 |
| DPG-021*          | -                  | -14.70 to 30.00 | -1.033 to 2.109    | -1.013 to 2.069 | -29.93 to 61.08 | -33.94 to 69.21 | -101.4 to 206.9 | -235.2 to 480      | -407.3 to 830.4 | -1013 to 2069 | -1034 to 2109 | -760.7 to 1551  |
| DPG-022*          | -                  | -14.70 to 45.00 | -1.033 to 3.164    | -1.013 to 3.103 | -29.93 to 91.63 | -33.94 to 103.8 | -101.4 to 310.3 | -235.2 to 720      | -407.3 to 1245  | -1013 to 3102 | -1034 to 3164 | -760.7 to 2327  |
| DPG-023*          | -                  | -14.70 to 60.00 | -1.033 to 4.218    | -1.013 to 4.137 | -29.93 to 122.2 | -33.94 to 138.4 | -101.4 to 413.7 | -235.2 to 960      | -407.3 to 1661  | -1013 to 4137 | -1034 to 4218 | -760.7 to 3103  |
| DPG-024*          | -                  | -14.70 to 100.0 | -1.033 to 7.03     | -1.013 to 6.895 | -29.93 to 203.6 | -33.94 to 230.7 | -101.4 to 689.5 | -235.2 to 1600     | -407.3 to 2768  | -1013 to 6895 | -1034 to 7031 | -760.7 to 5172  |

\*Model is not FM approved.