GaugeZone™

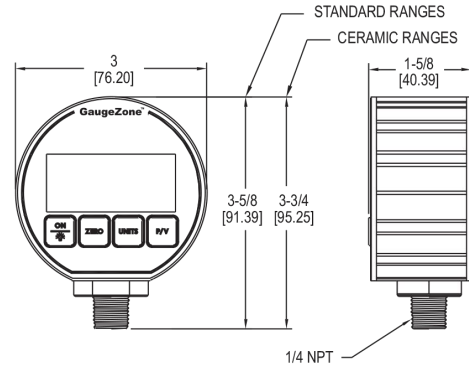# DPG-GZ DIGITAL PRESSURE GAUGE

The **SERIES DPG-GZ** Digital Pressure Gauge has a precise ±0.25% full scale accuracy. The 4 digit digital display will reduce the potential for errors in readings by eliminating parallax error commonly produced with analog gauges.

The DPG-GZ is packaged in a durable extruded aluminum case designed to meet NEMA 4/4X. The unit is battery powered and has an auto-shut off to conserve battery life. A four 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, auto zero and conversion of the pressure units. Readings may be converted to various engineering units. See reverse page for available units.

DPG-GZ Quick Start Button Operation
For complete detailed instructions on the four button operation see the Operation Chart provided on back.

On/Backlight: Push to turn on; Press again for backlight. Press and hold for 5 seconds to turn unit off.

Zero: Zeros the display - Press the ZERO button until dashes "---" are seen on the LCD, then release the button. If after pressing zero the display does not re-zero, the unit is no longer meeting specified accuracy and should be sent back to the factory for calibration. Do not use the zero button when pressure is applied.

Units: Scroll (see next page for Model/Range Chart).

P/V: Peak recorded reading retrieved by initial push of button; push again retrieves the valley or lowest value recorded.

INSTALLATION
When installing gauge always use 1″ hex at the base of the housing to tighten the gauge to a mating fitting. **Do not apply wrench to housing.**

MAINTENANCE
A "LOW BAT" descriptor indication will appear on the display when batteries need to be replaced.

Battery Replacement: Remove the three screws on backplate. Lift backplate off by hand. Replace batteries per polarity indicators. To reassemble, ensure O-ring seats into housing evenly and press until seated completely. Replace screws.

⚠ **WARNING** Substitution of components may impair intrinsic safety. Batteries must be changed in a non-hazardous location only. DO NOT mix batteries from different manufacturers. DO NOT mix old batteries with new batteries. Use 1.5 volt AAA alkaline batteries Duracell® MN2400.

⚠ **WARNING** Enclosure parts are constructed of plastic. When cleaning the exterior surfaces use a damp cloth to avoid electrostatic sparking.

⚠ **WARNING** Enclosure parts are constructed of aluminum. Enclosure must be protected from mechanical friction and impact with iron/steel to prevent ignition capable sparks.

SPECIFICATIONS
Service: Liquids and combustible compatible gases (for FM listings see agency approvals below).
Wetted Materials: Type 316L SS.
Housing Materials: Black polycarbonate front & back cover, anodized aluminum extruded housing with recessed grooves, polycarbonate overlay, Buna-N O-rings, 316L SS sensor construction.
Accuracy: 0.25% full scale; Ceramic Ranges: 0.5% full scale; ±1 least significant digit @ 70°F (21°C). (Includes linearity, hysteresis, repeatability).
Pressure Limit: 2x pressure range for models ≤1000 psi;5000 psi for 3000 psi range;7500 psi for 5000 psi range.
Enclosure Rating: Designed to meet NEMA 4/4X (IP65).
Temperature Limits: 0 to130°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°Fis 0.09%/F; Between 0 to 10°Fis 0.50%/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 .234W digits).
Sample Rate: 2 sec.
Power Requirements: (2) AAA alkaline batteries, included, user replaceable.
Battery Life: 2000 hours typical; low battery indicator.
Auto Shut-Off: Gauge: 60 minute auto shut-off. Auto shut-off may be disengaged; Backlight: 2 minute auto shut-off.
Agency Approvals: CE, FM. FM Approved intrinsically safe for Class I, Division 1, Groups ABCD except 0-5000 psi range.
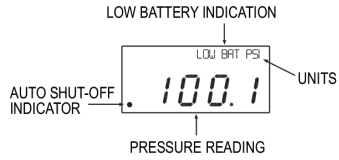
WARNING: DO NOT pressurize DPG-GZ over maximum allowable pressure limits. Extreme damage can occur if limits are exceeded (see Pressure Limit under Specifications). An overflow "OFL" designator will flash to acknowledge that the gauge's pressure range has been exceeded.

Model/Range Chart

Model	Range psi	FM Approved
DPG-GZ-195488-00	0-5	Yes
DPG-GZ-195488-10	0-15	Yes
DPG-GZ-195488-11	0-30	Yes
DPG-GZ-195488-12	0-50	Yes
DPG-GZ-195488-13	0-100	Yes
DPG-GZ-195488-14	0-200	Yes
DPG-GZ-195488-15	0-300	Yes
DPG-GZ-195488-16	0-500	Yes
DPG-GZ-195488-17	0-1000	Yes
DPG-GZ-195488-18	0-3000	Yes
DPG-GZ-195488-19-NFM	0-5000	No

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LOW BATTERY INDICATION

LOW BAT PSI

AUTO SHUT-OFF INDICATOR

. 100.1

UNITS

PRESSURE READING

DPG-GZ Button Operation		
Button	**Operation**	**Action**
ON	Turn Unit On	Press and hold ON button
	Turn Backlight On (Auto Shut-Off: 2 Min)	While gauge is on press ON button
	Turn Backlight Off	While backlight is on press ON button
	Turn Unit Off	While gauge is on, press and hold ON button 5 seconds for unit to turn off.
ZERO	Zero Gauge	With no pressure applied to the gauge, press the ZERO button until dashes "---" are seen on the LCD, then release
		If gauge will not zero, then gauge is no longer meeting specified accuracy and should be sent back to the factory for recalibration
		Note: Gauge is not to be zeroed while pressure is applied
UNIT	Unit Selection	Press UNIT button to change units on gauge (Not all units are available for each range, please refer to model/range chart located below for available units)
P/V	View Peak	Press P/V button to read peak (highest pressure) measurement
	View Valley	Press P/V button again to read valley (lowest pressure) measurement
	Reset Peak & Valley	Press and hold P/V button to reset peak and valley
	Exit Peak & Valley	Press ON button to exit peak/valley
ON plus P/V	Disengage Auto Shut-Off	Auto shut-off will turn off an idle gauge after 60 minutes. To disengage auto shut-off, press and hold ON button, then press and hold P/V button. A decimal will blink in the lower left hand corner of the display to indicate the auto-shut off is turned off. To turn on auto shut-off, repeat above procedure until decimal point stops blinking