Size: 3.00" OD x 1.90 deep (max).

Weight: 8.84 oz (275 g).

Sample Rate: 2 sec.

battery indicator.

its).

able.

shut-off.

Directive:

EN 61000-4-2

EN 61000-6-2

EN 61000-6-4

EN 55011

Process Connection: 1/4" male NPT.

Display: 4 digit (.425 H x .234W dig-

Power Requirements: (2) AAA alka-

line batteries, included, user replace-

Battery Life: 2000 hours typi-cal; low

Auto Shut-Off: Gage: 60 minute auto

disengaged; Backlight: 2 minute auto

Agency Approvals: FM approved to

Division I, Groups A,B, C and D, for

ranges 0-15 to0-3000 psi. CE EMC

shut-off. Auto shut-off may be

be intrinsically safe for Class I.

EN 61000-4-3 & ENV50204



Series DPG-100 Digital Pressure Gage

Specifications - Installation and Operating Instructions



The Series DPG-100 Digital Pressure Gage 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 gages.

The DPG-100 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 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 - Push & hold for 2 seconds to zero the display. 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.



ZERO

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



 $\ensuremath{\text{P/V}}$: Peak recorded reading retrieved by initial push of button; push again retrieves the valley or lowest value recorded.

INSTALLATION

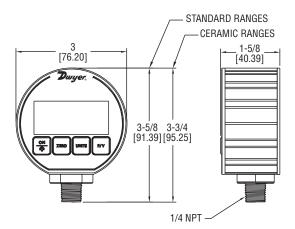
When installing gage always use 1" hex at the base of the housing to tighten the gage to a mating fitting. **Do not apply wrench to housing.**

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.



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).

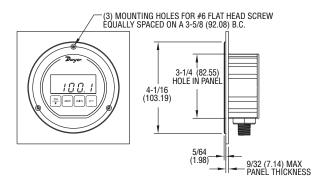
Thermal Effect: Between 70 to 130°F is 0.016%/F; Between 32 to 70°F is0.026%/F; Between 10 to 32°Fis 0.09%/F; Between 0 to 10°Fis 0.50%/F.

*Note: Gages with ceramic sensor are not CE and FM approved.

WARNING: DO NOT pressurize DPG 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 gage's pressure range has been exceeded.

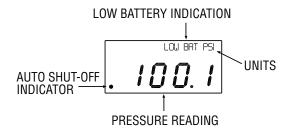
PANEL MOUNT OPTION

Drill a 3-1/4" (82.55) diameter hole in a panel, locate three mounting holes for a #6 screw 120° apart on a 3-58" (92.08) bolt circle.



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DPG Button Operation

Button	Operation	Action					
ON C	Turn Unit On	Press and hold ON button					
	Turn Backlight On (Auto Shut-Off: 2 Min)	While gage is on press ON button					
	Turn Backlight Off	While backlight is on press ON button					
	Turn Unit Off	While gage is on, press and hold ON button 5 seconds for unit to turn off.					
ZERO	Zero Gage	With no pressure applied to the gage, press and hold ZERO button until display flashes					
		If gage will not zero, then gage is no longer meeting specified accuracy and should be					
		sent back to the factory for recalibration					
		Note: Gage is not to be zeroed while pressure is applied					
UNIT	Unit Selection	Press UNIT button to change units on gage (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					
	Disengage Auto Shut-Off	Auto shut-off will turn off an idle gage 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					

Model/Range Chart

	Range	Pressure Ranges									
Model	psi	kg/cm ²	bar	in Hg	ft wc	kPa	oz/in ²	in wc	mbar	cm wc	mm Hg
DPG-100*	-14.70-0	-1.033	-1.013	-29.93	-33.94	-101.4	-235.2	-407.3	-1013	-1034	-760.7
DPG-102	15.00	1.055	1.034	30.54	34.61	103.4	240	415.2	1034	1055	775.7
DPG-103	30.00	2.109	2.069	61.08	69.21	206.9	480	830.4	2069	2109	1551
DPG-104	50.00	3.515	3.448	101.8	115.4	344.8	800	1384	3448	3515	2586
DPG-105	100.0	7.03	6.895	203.6	230.7	689.5	1600	2768	6895	7031	5172
DPG-106	200.0	14.06	13.79	407.2	461.4	1379	3200	5536			
DPG-107	300.0	21.09	20.69	610.8	692.1	2069	4800	8304			
DPG-108	500.0	35.15	34.48	1018	1154	3448	8000				
DPG-109	1000	70.3	68.98	2036	2307	6895					
DPG-110	3000	210.9	206.9	6108	6921						
DPG-111*	5000	351.5	344.8								

Compound Ranges available: DPG-120* Range: 30" Hg-0-15 psi; DPG-121* Range: 30" Hg-0-30 psi; DPG-122* Range: 30" Hg-0-45 psi; DPG-123*: Range 30" Hg-0-60 psi; DPG-124*: 30" Hg-0-100 psi.

*Optional ceramic sensor available. Add "C" to the range (Ex. DPG-100<u>C</u>).

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