

Series DPGAB & DPGWB Digital Pressure Gages

Specifications - Installation and Operating Instructions







The Series DPGAB & DPGWB Digital Pressure Gages have a precise ±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.

The DPGAB & DPGWB are packaged in an ABS plastic case. The unit is battery powered and has an auto-shut off to conserve battery life. A two button key pad allows easy access to features without the need to work through complex menus. These features include, auto zero and conversion of the pressure units. Readings may be converted to various engineering units. See reverse page for available units.

OPERATING INSTRUCTIONS

For complete instructions on the two button operation see the flow chart provided on back.

On/Off: Press ON/OFF to toggle on and off. Device will automatically shut off after 20 minutes if not used.

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.

Units: To change units, press both On/Off and Zero buttons simultaneously.

Overpressure Indicator: The LCD will flash "OFL", if the pressure applied is over 105% F.S.

INSTALLATION

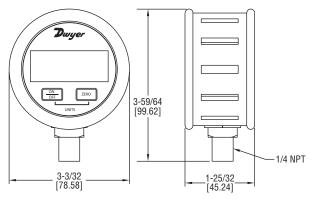
When installing gage always use 1" hex at the base of the housing to tighten the gage to a mating fitting. Do not apply wrench to housing.

MAINTENANCE

Battery Removal: Remove the screw on backplate. Lift backplate off by hand. To reassemble replace backplate and screw.

Replace batteries per polarity indicators.

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



SPECIFICATIONS

Service: DPGAB: Air and compatible gases; DPGWB: Liquids

and compatible gases. Wetted Materials:

DPGAB: 316L SS, silicone sensor;

DPGWB: Type 316L SS. Housing Materials: ABS plastic.

Accuracy: ±0.5% F.S. (Includes linearity, hysteresis,

repeatability).

Pressure Limits: 2X pressure range. Vacuum range max.

pressure is 30 psig.

Temperature Limits: 30 to 120°F (-1 to 49°C).

Thermal Effect: 0.05% FS/°F. Size: 2.62" O.D. x 1.52" deep.

Process Connections: 1/4" male NPT.

Display: 4-digit LCD (.425" H x .234" W digits).

Power Requirements: 9 volt alkaline battery. Battery included

but not connected.

Auto Shut-off: 20 minute auto shut-off.

Weight: 5.6 oz (160 g).

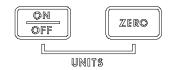
Phone: 219/879-8000

Fax: 219/872-9057

e-mail: info@dwver-inst.com

www.dwyer-inst.com

DPGAB & DPGWB BUTTON OPERATION



To Turn On & Off:

 $\mathbb{Q}\mathbb{N}$ OFF Press to turn unit on. Press again to turn unit off.

To Zero Display:

ZERO

To zero display, disconnect gage from any pressure source. Press and hold zero button until the LCD displays "- - -", then release.

To Change Units:



To change units, disconnect gage from any pressure source. Press both with the simultaneously until desired units are displayed.

| | | Pressure Ranges | | | | | | | | | Resolution | | |
|----------|-------------------|-----------------|--------|--------|--------|--------|--------|--------|--------|-------|------------|-------|-------|
| Model | Range | psi | kg/cm² | bar | in Hg | ft wc | kPa | oz/in² | in wc | mbar | cm wc | mm Hg | psi |
| DPGAB-00 | 30" Hg to 0 (vac) | -14.70 | -1.033 | -1.013 | -29.93 | -33.94 | -101.4 | -235.2 | -407.3 | -1013 | -1034 | -761 | 0.01 |
| DPGAB-01 | 0 to 20" w.c. | 0.722 | .0508 | .0498 | 1.471 | 1.667 | 4.980 | 11.55 | 20.00 | 49.80 | 50.8 | 37.37 | 0.001 |
| DPGAB-02 | 0 to 1 psi | 1.000 | .0703 | .0689 | 2.036 | 2.307 | 6.89 | 16.00 | 27.68 | 68.9 | 70.3 | 51.7 | 0.001 |
| DPGAB-03 | 0 to 2 psi | 2.000 | .1406 | .1379 | 4.072 | 4.614 | 13.79 | 32.00 | 55.4 | 137.9 | 140.6 | 103.4 | 0.001 |
| DPGAB-04 | 0 to 5 psi | 5.000 | .3515 | .3447 | 10.18 | 11.53 | 34.47 | 80.0 | 138.4 | 344.7 | 351.5 | 258.6 | 0.002 |
| DPGAB-05 | 0 to 15 psi | 15.00 | 1.055 | 1.034 | 30.54 | 34.60 | 103.4 | 240.0 | 415.2 | 1034 | 1055 | 776 | 0.01 |
| DPGAB-06 | 0 to 30 psi | 30.00 | 2.109 | 2.068 | 61.1 | 69.2 | 206.8 | 480.0 | 830 | 2068 | 2109 | 1551 | 0.01 |
| DPGAB-07 | 0 to 50 psi | 50.00 | 3.515 | 3.447 | 101.8 | 115.3 | 344.7 | 800 | 1384 | 3447 | 3515 | 2586 | 0.02 |
| DPGAB-08 | 0 to 100 psi | 100.0 | 7.03 | 6.89 | 203.6 | 230.7 | 689 | 1600 | 2768 | 3447 | | | 0.1 |
| DPGAB-09 | 0 to 200 psi | 200.0 | 14.06 | 13.79 | 407.2 | 461.3 | 1379 | 3200 | | | | | 0.1 |
| DPGAB-10 | 0 to 300 psi | 300.0 | 21.09 | 20.68 | 611 | 692 | 2068 | 4800 | | | | | 0.1 |
| DPGAB-11 | 0 to 500 psi | 500.0 | 35.15 | 34.47 | 1018 | 1153 | 3447 | | | | | | 0.2 |

| | | Pressure Ranges | | | | | | | | | | Resolution | |
|----------|-------------------|-----------------|--------|--------|--------|--------|--------|--------|--------|-------|-------|------------|-------|
| Model | Range | psi | kg/cm² | bar | in Hg | ft wc | kPa | oz/in² | in wc | mbar | cm wc | mm Hg | psi |
| DPGWB-00 | 30" Hg to 0 (vac) | -14.70 | -1.033 | -1.013 | -29.93 | -33.94 | -101.4 | -235.2 | -407.3 | -1013 | -1034 | -761 | 0.01 |
| DPGWB-04 | 0 to 5 psi | 5.000 | .3515 | .3447 | 10.18 | 11.53 | 34.47 | 80.0 | 138.4 | 344.7 | 351.5 | 258.6 | 0.002 |
| DPGWB-05 | 0 to 15 psi | 15.00 | 1.055 | 1.034 | 30.54 | 34.60 | 103.4 | 240.0 | 415.2 | 1034 | 1055 | 776 | 0.01 |
| DPGWB-06 | 0 to 30 psi | 30.00 | 2.109 | 2.068 | 61.1 | 69.2 | 206.8 | 480.0 | 830 | 2068 | 2109 | 1551 | 0.01 |
| DPGWB-07 | 0 to 50 psi | 50.00 | 3.515 | 3.447 | 101.8 | 115.3 | 344.7 | 800 | 1384 | 3447 | 3515 | 2586 | 0.02 |
| DPGWB-08 | 0 to 100 psi | 100.0 | 7.03 | 6.89 | 203.6 | 230.7 | 689 | 1600 | 2768 | | | | 0.1 |
| DPGWB-09 | 0 to 200 psi | 200.0 | 14.06 | 13.79 | 407.2 | 461.3 | 1379 | 3200 | | | | | 0.1 |
| DPGWB-10 | 0 to 300 psi | 300.0 | 21.09 | 20.68 | 611 | 692 | 2068 | 4800 | | | | | 0.1 |
| DPGWB-11 | 0 to 500 psi | 500.0 | 35.15 | 34.47 | 1018 | 1153 | 3447 | | | | | | 0.2 |

©Copyright 2013 Dwyer Instruments, Inc.

Printed in U.S.A. 5/13

Phone: 219/879-8000

Fax: 219/872-9057

FR# 18-443798-00 Rev.1

DWYER INSTRUMENTS, INC.

e-mail: info@dwyer-inst.com

www.dwyer-inst.com