



Miniature Battery Powered Digital Pressure Gauge

DPG 108



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Introduction

DPG108 is a battery powered digital pressure gauge, making for easy on-site installation. The DPG108 uses a high-precision piezo-resistive pressure sensor. The output signal is amplified by a high-precision, low-temperature drift amplifier. The signal is then fed into a high accuracy A/D converter for the microprocessor to process and then show on the LCD display.

This flexible, simple to operate digital pressure gauge is safe, reliable, and easy to maintain. The DPG108 is widely used in hydropower, water, petroleum, chemical, mechanical, hydraulic, and other industries.

Features

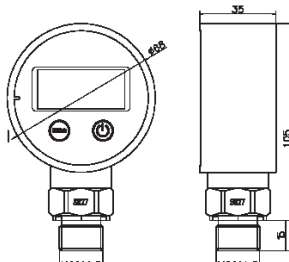
- High resolution, back lit, LCD Display.
- Automatically records the maximum pressure values during measurement
- Five engineering units
- Adjustable 0-15 minute auto shut-off
- Efficient power usage - over 2,000 hours in power-saving mode
- 4 times per second sampling rate
- Can be used with gasses and liquids compatible with stainless steel.

Specifications

- **Measuring Range**
-0.1~0~100MPa
- **Engineering Units**
psi, bar, kPa, MPa, kg / cm²
- **Overload Pressure**
150%~200%
- **Pressure Type**
G / A / D
- **Stability**
≤0.1% FS per year

- **Power Supply**
9VDC
- **Display**
4 Digits
- **Accuracy Range**
±0.25% for gauge pressure
>5psi
±0.5% FS for all others
including absolute, compound gauge, and Vacuum ranges
- **IP Rating**
IP65 / IP68 with Silicone case
- **Sampling Rate**
≤4 t/s
- **Operating Temp**
-20°C ~ 70°C
- **Relative Humidity**
≤90%
- **Thread Size**
1/4 NPT
- **Thread Material**
SS316

Dimensions



Operating Instructions

- **Power On / Off**
Short Press On / Off button
- **Change Engineering Units**
Long press On / Off button
- **Reset Peak Pressure**
Short press "Zero" button

- **Clear Display**
Long press "Zero" button

Modify Setting

Short Press Zero button to modify the current setting; Long Press Zero button to shift the digit being adjusted from left to right.

Short press On/Off button to modify the current setting; Long Press to save the value change.

Setting Menu

- **lodd**
password input menu, default is 1000
- **offt**
auto-off time menu, 0-15 minutes. 00 means no auto-off function
- **bclt**
back light time menu, 0-15 minutes. 00 means no auto-off function
- **end**
exit menu. 0 or 1.0 means exiting without keeping the changes; 1 means exiting and keeps the changes

Navigating the Menu

Press the On/Off and Zero buttons simultaneously and press 1000 to unlock the screen. Short press the Zero button to choose the menu to be modified. Short press the On/Off button to change the value. Short press the On/Off button to confirm the change. Short press the Zero button to choose the "end-" menu. When "1" appears, press On/Off to keep the change and exit all menus.



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WARNING: These products are not designed for use in, and should not be used for, human applications.

WARRANTY/DISCLAIMER

OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of **13 months** from date of purchase. OMEGA's WARRANTY adds an additional one (1) month grace period to the normal **one (1) year product warranty** to cover handling and shipping time. This ensures that OMEGA's customers receive maximum coverage on each product.

If the unit malfunctions, it must be returned to the factory for evaluation. OMEGA's Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective, it will be repaired or replaced at no charge. OMEGA's WARRANTY does not apply to defects resulting from any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, or unauthorized modification. This WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of having been damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of OMEGA's control. Components in which wear is not warranted, include but are not limited to contact points, fuses, and triacs.

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The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

FOR **WARRANTY RETURNS**, please have the following information available BEFORE contacting OMEGA:

1. Purchase Order number under which the product was PURCHASED,
2. Model and serial number of the product under warranty, and
3. Repair instructions and/or specific problems relative to the product.

FOR **NON-WARRANTY REPAIRS**, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:

1. Purchase Order number to cover the COST of the repair,
2. Model and serial number of the product, and
3. Repair instructions and/or specific problems relative to the product.

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