Miniature Battery Powered Digital Pressure Gauge

DPG108

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

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
- locd
  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.
The information contained in this document is believed to be correct, but OMEGA accepts no liability for any errors it contains, and reserves the right to alter specifications without notice.

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

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### 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.

OMEGA is pleased to offer suggestions on the use of its various products. However, OMEGA neither assumes responsibility for any omissions or errors nor assumes liability for any damages that result from the use of its products in accordance with information provided by OMEGA, either verbal or written. OMEGA warrants only that the parts manufactured by the company will be as specified and free of defects. OMEGA MAKES NO OTHER WARRANTIES OR REPRESENTATIONS OF ANY KIND WHATSOEVER, EX presses or implied, except that of title, and all implied warranties including any warranty of merchantability and fitness for a particular purpose are hereby DISCLAIMED. LIMITATION OF LIABILITY: The remedies of purchaser set forth herein are exclusive, and the total liability of OMEGA with respect to this order, whether based on contract, warranty, negligence, indemnification, strict liability or otherwise, shall not exceed the purchase price of the component upon which liability is based. In no event shall OMEGA be liable for consequential, incidental or special damages.

CONDITIONS: Equipment sold by OMEGA is not intended to be used, nor shall it be used: (1) as a “Basic Component” under 10 CFR 21 (NRC), used in or with any nuclear installation or activity; or (2) in medical applications or used on humans. Should any Product(s) be used in or with any nuclear installation or activity, medical application, used on humans, or misused in any way, OMEGA assumes no responsibility as set forth in our basic WARRANTY/DISCLAIMER language, and, additionally, purchaser will indemnify OMEGA and hold OMEGA harmless from any liability or damage whatsoever arising out of the use of the Product(s) in such a manner.

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### RETURN REQUESTS / INQUIRIES

Direct all warranty and repair requests/inquiries to the OMEGA Customer Service Department. BEFORE RETURNING ANY PRODUCT(S) TO OMEGA, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM OMEGA’S CUSTOMER SERVICE DEPARTMENT (IN ORDER TO AVOID PROCESSING DELAYS). The assigned AR number should then be marked on the outside of the return package and on any correspondence.

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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