DVG-64
Electronic Vacuum Gauge

DVG-64 SPECIFICATIONS

Display
Updated every second. 1 micron resolution below 200 micron of vacuum

Sensor Type
Thermistor

Connector Type
Standard 1/4 inch male flare fitting

Vacuum Range
0 - 12,000 Microns (0 - 1,600 Pascals) with vacuum increasing/decreasing indicator when above 12,000 Microns

Scale
Microns, PSI, InHg, milliBars, Pascals, Torr, milliTorr

Operating Temp. Range
2 to 52°C (35 to 125°F)

Overpressure
300 PSI max (20 Bar)

Accuracy
±10% (0 to 1000 microns)

Power Source
9 Volt Alkaline battery (not included)

Continuous Usage
Over 35 hours

Auto Shut off
After 10 minutes when vacuum reading is above 12,000 Microns (12 Torr)

Weight
0.2 kg (6.7 oz)

Dimensions
140 H x 76 W x 32 mm D (5.5 x 3 x 1.25")

FEATURES
• Reads vacuum in 7 international units
• Uses the battery power than other models
• Cleaning port provides quick cleaning and drying of sensor
• Uses standard 9V Alkaline battery
• Convenient built-in hanger

OPERATING CONTROLS
• Turning the vacuum gauge ON: Press and hold the ON button for about 3 seconds, until "POWER UP" appears on the display.
• Turning the vacuum gauge OFF: Press the OFF button. To prolong battery life, when vacuum reading is above 12,000 Microns for about 10 minutes, the unit will automatically turn OFF.
• Changing the scale: Press the Scale button to change the display to the next scale. The scale order is: Microns, PSI, Inches of mercury (InHg), milliBars, Pascals, Torr and milliTorr. DVG64 will keep the scale settings even if the power is turned OFF.

UNDERSTANDING THE DISPLAY
• When the vacuum reading is above 12,000 Microns (1,600 Pascals), the first line of the display shows "Atm." The second line displays a bar graph to indicate the direction in which the vacuum is moving. When the bar graph is moving from left to right, the pressure is increasing. When the bar graph is moving from right to left, the pressure is decreasing. The speed of the bar graph indicates how fast the pressure is increasing or decreasing. The bar graph indicator may be inaccurate for a few seconds after the evacuation of the system has begun.

The bar graph disappears if the vacuum does not change for about 10 seconds. When the vacuum reading is below 12,000 Microns (1,600 Pascals), the vacuum in the selected units is displayed.

CONNECTING TO THE VACUUM SYSTEM
The VG64 should only be connected to the vacuum system at the vacuum port. The "Auxiliary Port" is primarily for cleaning and should normally be closed with the supplied cap.

CLEANING THE VACUUM SENSOR
It is recommended that the sensor be cleaned periodically to maintain unit accuracy. Oil and other contaminants reduce the accuracy of the unit. Follow the instructions below for cleaning.
• Close the Vacuum port with the supplied cap.
• Open the Auxiliary port.
• Use an eyedropper to pour about 2 teaspoons of ordinary rubbing alcohol into the Auxiliary port.
• Close the Auxiliary port with the supplied cap. Both the Vacuum and Auxiliary ports should now be closed.
• Shake the DVG64 unit for about 10 seconds. A slight movement of the vacuum sensor in the case is normal and does not affect the internal connection in any way.
• Open both the Vacuum and the Auxiliary ports.
• Empty the alcohol, and air dry the sensor.
• Close both the Vacuum and the Auxiliary ports with the supplied caps when the DVG64 is not used. This prevents contamination of the sensor.
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, EXPRESSED 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.

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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