

MALCOEDGE™

DVG1

DIGITAL VACUUM GAUGE



The DVG1 is built with an advanced solid state vacuum sensor that can precisely measure the vacuum level. The vacuum gauge is used for monitoring vacuum level progress when servicing HVAC-R equipment. From the measurements, you can gather information about the evacuation and dehydration progress. Once vacuum requirements are met, the system can be charged with refrigerant. In addition to verifying a proper vacuum, the digital vacuum gauge can perform a timed vacuum decay leak test. The vacuum gauge has a battery life of 100 hours.



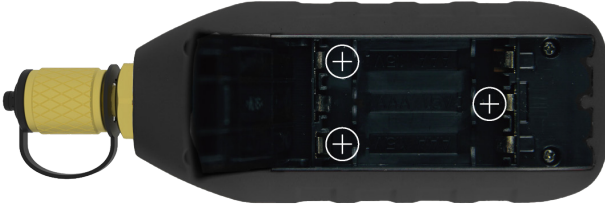
SCAN FOR SPANISH AND FRENCH


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BUSCAR ESPAÑOL Y FRANCÉS







INITIAL SETUP


[1] Install the 3-AAA batteries into the battery compartment. Please note the polarity of the batteries when installing.




[2] Push and hold  button to turn on unit, this will take about 3 seconds. If the vacuum gauge is in the correct units of measure, continue to Step 4.

[3] To change units of measure push  touch key. Available units of measure are Torr, Pa, mBar, inHg and Microns. Push  or  touch key to scroll to the desired units of measure. Once the desired unit of measure is flashing, push  button to set.





[4] Unit is ready for use. The backlight will remain lit for 20 seconds, you can toggle the light on/off by pressing and releasing the  button.










[5] To manually turn off the unit, push and hold the  button for 3 seconds. You will see a count down on the display until it shuts off. The vacuum gauge also has a 10 minute auto off feature.



OPERATION-VACUUM MEASUREMENT






- [1] Push and hold the  button to turn on the vacuum gauge.
- [2] Connect Vacuum Gauge to a HVAC-R system that has had its refrigerant removed. The pressure in the system should be 0 (zero) PSIG or lower. Where to connect in the system is up to the user's preference.
- [3] Connect vacuum pump to system. Turn on vacuum pump.
- [4] The vacuum gauge will show vacuum progress once below 99,999 microns.
- [5] The vacuum gauge has a 10 minute auto off feature. If the vacuum gauge turns off, push and hold the  button to turn the vacuum gauge back on.
- [6] Run until the desired vacuum level is achieved.

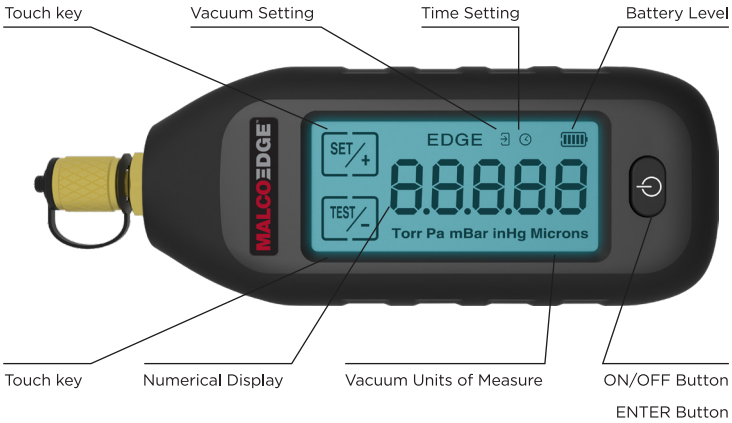
VACUUM DECAY LEAK TEST

- [1] The vacuum gauge has a feature to perform a timed decay leak test. To set the maximum vacuum level and test time, push and hold the  touch key for 2 seconds.
- [2] The display will show a flashing Vacuum Level setting that can be adjusted by pushing either the  or  touch key. Once desired vacuum level is shown, push the  button.
- [3] The display will now show a flashing test time setting that can be adjusted by pushing either the  or  touch key. Once set, push the  button.
- [4] The display will go back to the normal use screen. Before you start the vacuum hold test, the vacuum gauge needs to reach your target vacuum level.
- [5] To start a test, push the  touch key. The display will flash between the two vacuum decay test points (vacuum and time). Push the  button to start the tests.
- [6] If the leak test passed, the display will show the current vacuum level.
- [7] If the leak test fails, the display will show the time elapsed when the failure occurred. Push the  button to return the unit to the home page.

AUTO OFF FEATURE

The vacuum gauge has a default setting to use the 10 minute Auto Off feature. This can be changed by the following steps:

- [1] Press the  touch key and the  button at the same time for 2 seconds, the LED backlight will come on.
- [2] At this time press the  touch key again, the vacuum display area will show ON or OFF.
- [3] Push the  touch key again to toggle between ON and OFF.
- [4] Press the  button to confirm.



Specifications

| | |
|-----------------------------|---|
| Maximum Pressure | 72PSI /0.5Mpa |
| Range | 0-99999 Pa, 0-1000 mBar, 0-30inHg, 0-99999 Micron, 0-760 Torr |
| Resolution | 0.01 (<10Pa), 0.0001 (<10mBar), 0.0001 (<0.5 inHg), 1 (<30000 Microns), 1 (<760 Torr) |
| Accuracy | 2-100 Pa, ±5% of reading (at 20°C) |
| Operating Temperature | 32°F -122°F (0°C - 50°C) |
| Battery life | 100 hours (3-AAA batteries) |
| Unit | Pa, mBar, inHg, Microns, Torr |
| Refresh Rate | 1 seconds |
| Connection | 1/4"SAE Female Flare |
| Sensor | Pirani sensor |
| Auto Off time | 10 minutes |
| Backlight On time | 20 seconds |
| Buzzer Alarm | 90 dB |
| Weight | 7 oz. (with batteries) |

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DIGITAL VACUUM GAUGE



PRODUCT REGISTRATION

*ENREGISTREMENT DU PRODUIT
REGISTRO DEL PRODUCTO*



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SL70115A