



LIFETIME SENSOR

VG64

Vacuum Gauge

Vacuómetro Digital

Manomètre À Vide Numérique

Removable  
Magnetic Strap

Integrated  
Hook  
"Look Inside!"

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## VG64 LIFETIME SENSOR

The VG64 incorporates a revolutionary new sensor design that is highly resistant to contamination. Unlike other vacuum gauges currently on the market, the VG64 maintains working accuracy even when the sensor is contaminated with oil or similar contaminants. For many applications, the sensor does not require any cleaning for the life of the sensor.

A contaminated sensor will decrease the accuracy of the instrument by about 5%. To achieve optimal performance again, clean the sensor as outlined in the instructions.

Other vacuum gauges on the market today will decrease in accuracy by 500% to 1000% when contaminated, or not work at all.

If the VG64 sensor is flooded with oil or other liquids, the instrument will detect this condition and display SERR on the display, indicating that sensor cleaning is required. All that needs to be done if this occurs is to shake the liquid out of the sensor.

## VG64 CON SENSOR DE POR VIDA

El VG64 incorpora un nuevo sensor de diseño revolucionario que es altamente resistente a la contaminación. A diferencia de otros manómetros de vacío que se venden en el mercado actualmente, el VG64 mantiene su precisión de funcionamiento aun cuando el sensor está contaminado con aceite o sustancias similares. Para muchas de las aplicaciones, el sensor no requiere ninguna limpieza durante su vida útil.

Un sensor contaminado disminuirá el nivel de precisión del instrumento en alrededor de un 5%. Para obtener un rendimiento óptimo nuevamente, deberá limpiar el sensor de acuerdo con lo indicado en las instrucciones del producto.

Al entrar en contacto con agentes contaminantes, otros manómetros de vacío que están a la venta en el mercado disminuirán su nivel de precisión en alrededor de un valor de 500 a 1000% o dejarán de funcionar por completo.

Si el sensor del VG64 es mojado con aceite u otros líquidos, el instrumento detectará el problema y mostrará SERR en la pantalla para indicar que es necesario efectuar una limpieza. Cuando eso ocurre, lo único que hay que hacer es sacudir el líquido para extraerlo del sensor.

## CAPTEUR À VIE VG64

Le VG64 intègre un nouveau capteur révolutionnaire hautement résistant à la contamination. Contrairement à d'autres vacuomètres actuellement sur le marché, le VG64 garantit un travail de précision même lorsque le capteur est contaminé par de l'huile ou d'autres substances similaires. Pour de nombreuses applications, le capteur ne nécessite aucun nettoyage tout au long de sa durée de vie.

Un capteur contaminé diminuera la précision de l'instrument d'environ 5%. Pour obtenir des performances optimales à nouveau, nettoyer le capteur comme indiqué dans les instructions.

Les autres vacuomètres actuels du marché perdront entre 500 et 1000 % de précision s'ils sont contaminés, ou risqueront de ne pas fonctionner du tout.

Si le capteur VG64 est inondé d'huile ou d'autres liquides, l'instrument permettra de détecter ce problème et affichera SERR à l'écran, indiquant ainsi que le capteur doit être nettoyé. Dans ce cas, il convient simplement de dégager le liquide du capteur.

## VG64 Instructions

### FEATURES

- Unmatched Resolution (as low as 0.5 micron)
- ½ Second Response Time (update rate)
- Backlit LCD
- Auto Shut Off
- Built-in Hanger
- Two Year Warranty

### OPERATING CONTROLS

To turn the unit ON, press and release the Power Button.

To turn the unit OFF, press and hold the Power button, until the unit turns OFF.

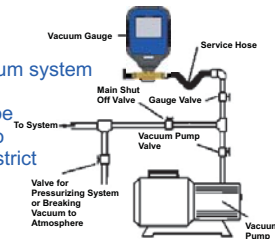
Pressing and releasing the Power button turns on the backlight.

Changing the scale: Press the UNITS button to change the display to the next scale.

The scale order is: Micron, mTorr, Torr, Pascal, mBar. The VG64 will keep the scale settings even if the power is turned OFF.

**CONNECTING THE VG64 TO THE VACUUM SYSTEM**

The VG64 should 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. It is possible to connect the VG64 in-line, however it may restrict flow and increase the evacuation time.



**CLEANING THE VG64 LIFETIME SENSOR**

It is recommended that the VG64 sensor be cleaned periodically to maintain unit accuracy. Oil and other contaminants slightly reduce the accuracy of the VG64 unit. Follow the instructions below for cleaning.

- Use an eyedropper to pour a few drops of ordinary rubbing alcohol into either port. Keep the other port closed.
- Close the port with the supplied cap.
- Shake the VG64 unit for approximately 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 the vacuum port. Empty the alcohol and air dry the sensor.

Close the vacuum port with the supplied cap when the VG64 is not used. This prevents contamination of the sensor.

Many of the vacuum gauge warranty returns that SUPCO receives are due to contaminated sensors. For vacuum gauges that are heavily contaminated, leave the alcohol in the gauge overnight to clean the sensor more effectively.

**CHECKING HVAC SYSTEMS FOR LEAKS**

When checking a system for leaks use only copper tubing and a vacuum proof valve. Generally, standard hoses will not hold a vacuum. If using the blank-off valve on the vacuum pump check it for leaks periodically. At the beginning of the test the VG64 reading may increase due to system equalization. The vacuum reading should hold after a minimum of 5 minutes. If the reading continues to increase it may indicate a leak in the system.

**DISPLAY RESOLUTION**

The display resolution depends on the vacuum displayed and is as follows:

Vacuum Range (Microns)	Resolution (Microns)
0 to 140	0.5
140 to 400	1
400 to 800	2
800 to 2000	5
2000 to 6000	20
6000 to 9000	100
9000 to 16000	200
16000 to 19000	1000
Above 19000	----is displayed

Vacuum Range (Pascal)	Resolution (Pascal)
0 to 18	0.05
18 to 50	0.1
50 to 100	0.2
100 to 260	0.5
260 to 800	2
800 to 1200	10
1200 to 2100	20
2100 to 2600	100
Above 2600	----is displayed

**LOW POWER MODE AND AUTO SHUTOFF**

If no buttons are pushed, the unit will automatically turn OFF to conserve power, as follows:

- No Vacuum is Showing: 10 Minutes
- Vacuum is Showing: 1 Hour

When vacuum is showing, after 10 minutes of operation, if no button is pressed, the unit will enter a low power mode. In this mode the unit updates the display every 7 seconds, instead of every 0.5 seconds. The display will show "POWER SAVE MODE" while in this state. This extends the battery life about 3 times. To exit the low power mode at any time, press any button on the unit.

**VG64 WARRANTY LIMITED TO TWO YEARS FROM DATE OF PURCHASE**

Sealed Unit Parts Co., Inc. warrants its products to be free from defects in materials and workmanship under normal use and service. Sealed Unit Parts Co., Inc. will repair or replace without charge any such products it finds to be so defective on its return to Sealed Unit Parts Co., Inc. The foregoing is in lieu of all other expressed or implied warranties, including those of merchantability or fitness for a particular purpose. The foregoing is also the purchaser's sole remedy and is in lieu of all other guarantees, obligations or liabilities or any consequential or incidental damages attributable to negligence or strict liability.

# VG64

## LIFETIME SENSOR Vacuum Gauge

### Features / Benefits

- Unmatched Resolution (as low as 0.5 micron)
- ½ Second Response Time (update rate)
- Backlit LCD
- Auto Shut Off
- Built-in Hanger
- Two Year Warranty
- Analog Bar Graph
- Battery Life Indicator

### VG64 Specifications

<b>Sensor Type</b>	Thermistor	
<b>Connector Type</b>	Standard ¼ inch male flare fitting.	
<b>Vacuum Range</b>	0 – 19,000 Micron (0 – 2,600 Pascal).	
<b>Resolution</b>	<b>Measurement Range</b>	<b>Resolution</b>
	0-140	0.5 Micron
	140-400	1 Micron
	400-800	2 Micron
	800-2000	5 Micron
	2000-6000	20 Micron
	6000-9000	100 Micron
	9000-16000	200 Micron
	16000-19000	1000 Micron
<b>Units</b>	Micron, milliBar, Pascal, Torr, milliTorr	
<b>Accuracy</b>	+/-10% or +/-10 Micron, whichever is larger (50 to 2000 Microns) at 75°F	
<b>Update Rate</b>	0.5 sec.	
<b>Operating Temperature Range</b>	0°F to 150°F (-17°C to 65°C)	
<b>Overpressure</b>	800 PSI max (55 Bar)	
<b>Power Source</b>	3 AA Batteries	
<b>Battery Life</b>	600 Hours continuous usage, with battery indicator.	
<b>Auto Shutoff</b>	10 minutes when vacuum reading is above 19,000 Microns 1 hour when vacuum reading is below 19,000 Microns	
<b>Weight</b>	6 oz	
<b>Dimensions</b>	5.5" H X 2.75" W X 1.5" D	

### Accessories

VGC Vacuum Gauge Coupler

MFDCASE Soft Carrying Case

Made by SUPCO®  
Ningbo, China



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Rev. 04072016 H26-062