

**Elitech**<sup>®</sup>

# Wireless Digital Vacuum Gauge User Manual

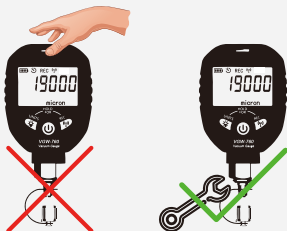


**VGW-760**

Thank you for buying our brand new vacuum gauge. Please read this manual thoroughly before use and keep it with the gauge for further consultation.

### **Warning!**

- Please use the gauge in specified environment to avoid error or damage of the sensor.
- Please do not use chemical solvent or corrosive liquid to clean the gauge.
- Please do not disassemble the gauge.
- Remove the batteries if the gauge is not to be used for a long time in case the leakage corrodes the gauge. The batteries included are not rechargeable. Please do not charge them.
- Please use a special tool to install or disassemble it. Do not strongly rotate the shell in case it is damaged.



# Overview

VGW-760 digital vacuum gauge features a professional vacuum sensor to precisely obtain vacuum measurements in the HVAC/R system and avoid compact on the system due to insufficient evacuation. The gauge can monitor the system in real time, test system leak and discern vacuum pump quality.

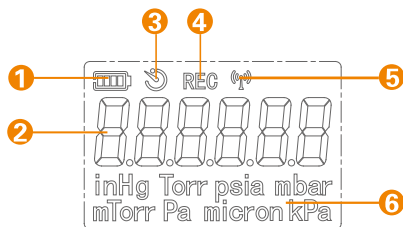
## Features

- ◆ View data on mobile app.
- ◆ Record data and generate report.
- ◆ Data analysis in graphs.
- ◆ Settable high/low pressure alarms.
- ◆ Protection grade IP65.

## SPECIFICATIONS

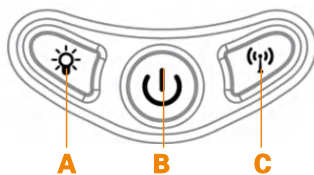
<b>Measuring range</b>	1- 19000 microns	
<b>Resolution</b>	1-400 microns	1 micron
	400-3000 microns	10 microns
	3000-10000 microns	100 microns
	10000-19000 microns	250 microns
<b>Accuracy</b>	1-10000 microns ±10% of Reading ± 10microns	
	10000-19000microns ±20% of Reading	
<b>Power supply</b>	3 AA batteries	
<b>Time in use</b>	120H	
<b>Units</b>	inHg, Torr, psia, mbar, mTorr, Pa, micron, kPa	
<b>Operating temperature</b>	0°F ~ 140°F (-17,8°C ~ 60°C)	
<b>Wireless transmission distance</b>	30m	
<b>Offline records</b>	9943 readings	
<b>Fitting</b>	1/4" SAE Male Flare	
<b>Product size</b>	127*74*37mm	
<b>Max overpressure</b>	27,5 bar	

# Display



① Power level	④ Status: Recording
② Pressure	⑤ Network: Connected
③ Auto off	⑥ Units

# Buttons








Press and release	A: Backlight	B: On/Off	C: Wireless connection
Press and hold	A: Switch units	/	C: Record
Press both	A+B: Enable /Disable Auto off		

# Operation

- 1) Before connecting the gauge to a system, press power button to turn it on. Then it enters normal display.
- 2) After power on, the gauge will display "-----" if the current pressure goes above its measuring range. Data do not show until the measured pressure is within the range.

**Note: Keep the pressure below 27.5bar, otherwise the sensor may be damaged.**

- 3) Make sure the connection type of the access system matches with the gauge fittings. If not, please use the included adapter.
- 4) Press and release  to turn on backlight. The backlight will be auto off two minutes later. Press in two minutes to turn off backlight directly.
- 5) Press and hold  to switch measurement units.
- 6) Press and release  to enable wireless connection. Press it again to disable wireless connection.
- 7) Press and hold  until "REC" appears in the screen to enable record function. Press and hold again to disable this function.
- 8) Press and release  to turn off the gauge. Please use special tools to remove it.

**Note: Please do not close the vacuum pump before removing the vacuum gauge from the system, or high pressure may occur in the system so that impurities will enter the sensor cavity.**

## Battery indicator :

The battery power is indicated in segments, which reduce with power consumption until the frame of flashes. Hence the LCD will display unstably.

**Please change batteries before the screen indicates unstably in case error message affects the normal use of the gauge.**

# Maintenance



① Sensor Nut	④ O-ring
② Filter Net	⑤ Vacuum
③ Filter Cotton	

The filter cotton in the cavity is used to filter impurities and reduce sensor pollution. In order to maintain the best measurement accuracy, regular inspection is required.

Follow the steps below:

1. Turn the gauge off and remove the batteries.
  2. Remove the sensor nut with a wrench, and remove the filter cotton and net.
  3. Check whether the filter cotton and net are contaminated with impurities. Try to wipe it with a paper towel. Replace the filter cotton if it cannot be cleaned.
  4. Check whether the O-ring is intact. If damaged, replace it. Before replacement, lubricate the O-ring with vacuum oil.
  5. Put the filter net and cotton into the sensor nut and tighten the nut with a wrench, (Torsion  $\geq 5N \cdot m$ )
- If the vacuum sensor inside the cavity is contaminated, follow the methods below to clean it:
1. Inject acetone or alcohol ( $>70\%$ ) into the vacuum cavity with a dropper or a syringe. Tighten the nut and gently shake the gauge.
  2. Loosen the nut and drain the fluid from the cavity. Repeat such operation 3 to 4 times.
  3. Evacuate it or place it for 3 hours until the sensor gets dry.

# Use the APP

Turn on the gauge and enable wireless connection, open the mobile APP to research the device and then connect.

In the connected devices interface, click "+" to add the device in the interface for viewing live pressure.

Note :1) Multiple devices can be added for viewing simultaneously.

2) For more details, go to APP menu – help.

## Download APP:

Search "Elitech Gauge" to get the APP for the iOS on the "App Store".

Search "Elitech Gauge" to get the Android APP from "Google Play".

Or scan the QR code in the VGW-760 User Manual.



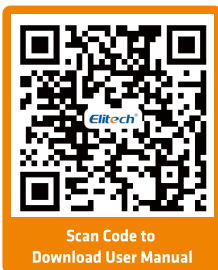
Android System



iOS System

## Package contents

VGW-760 Wireless vacuum gauge	x 1
AA alkaline batteries	x 3
User Manual	x 1
Three-way connection	x 1
Bent adapter	x 1
O-ring	x 2
Filter Cotton	x 2
Filter Net	x 2



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