Important
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.

Overview
VG-760 digital vacuum gauge features a professional vacuum sensor to precisely test vacuum and obtain accurate vacuum measurements during charging refrigerants. The evacuation of a HVAC/R system is to evacuate the air and moisture in the system, which, if mixed with refrigerants, may produce acidic chemical reaction, causing damages to the system in long term. Generally, system vacuum should be below 700 microns so that the moisture in the system can be effectively reduced. The best vacuum is 300 microns. Ordinary refrigerant gauges cannot meet this requirement. VG-760 is used to test system leak and discern vacuum pump quality.

Specifications
- Measuring range
  - 0 to 19000 microns
  - 0 to 400 microns: 1 micron
  - 400 to 3000 microns: 10 microns
  - 3000 to 10000 microns: 100 microns
  - 10000 to 19000 microns: 250 microns
  - 10% of reading
- Units: inHg/Torr/psia/mbar/mTorr/Pa/micron/kPa
- Power supply: 3 AA batteries
- Battery life: 300 hours
- Max overload pressure: 27.5 bar
- Operating temperature: 0°F to 140°F (-17.8°C to 60°C)
- Fitting: 1/4" male flare
- Product size: 127 x 74 x 37mm

Operation
1. Press power button to turn on the gauge before connecting it to a system. It will take 10 seconds for the gauge to warm up. 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 27.5 bar, otherwise the sensor may be damaged.
3. Make sure the fittings of the access system and the gauge match. 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 release units to switch measurement units.
6. Press and release to turn off the gauge. Please use special tools to disconnect it.
   - Note: Please do not close the vacuum pump before disconnecting 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. Then the LCD will display unstably.
- Note: Please change batteries before the screen displays unstable in case error message affects your use.

Clean the Sensor
The vacuum sensor may be contaminated by impurities in use. To ensure its accuracy, please follow the steps below to clean:
1. Turn the gauge off and take out batteries.
2. Inject acetone or alcohol (>70%) into the vacuum cavity with a dropper or a syringe. Tighten the nut and gently shake the gauge.
3. Loosen the nut and drain the fluid from the cavity. Repeat such operation 3 to 4 times.
4. Evacuate it or place it for 3 hours until the sensor gets dry.

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 it. 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.

What's Included
VG-760 Vacuum Gauge x 1
AA Alkaline Batteries x 3
User Manual x 1