VACUUM PUMP CHECK

Contaminants quickly form in the oil of a vacuum pump. Contaminated oil can severely inhibit pump performance and cause damage pump.

The VG200W will test the performance of a vacuum pump BEFORE it is used to evacuate a system. Attach the VG200W directly to the vacuum pump and watch the display as it measures the vacuum pump.

Note: Different sizes and brands of vacuum pumps will experience varied results. Check specifications published by the manufacturer of your vacuum pump to determine the ultimate vacuum level your pump can achieve. Many published specifications state that pumps rated between 2 & 8 CFM should experience an ultimate vacuum between 15 and 50 microns.

SENSOR CLEANING

The VG200W incorporates an easy to clean thermistor sensor, which cannot be damaged from exposure to positive pressure or oil mist.

Sensor cleaning procedure:

1. Invert VG200W and pour 1 tablespoon of 100% **DENATURED ALCOHOL** into sensor housing.
2. Gently rotate VG200W creating a swirling effect within housing.
3. Pour out alcohol, repeat procedure until alcohol appears clear of oil.
4. Allow sensor to air dry (**DO NOT BLOW DRY**).
5. If gasket appears damaged, replace (CPS Part Number: HXG - 10 replacment gaskets).

SPECIFICATIONS

Sensor Type	Self-heated thermistor bridge with integral temperature compensation from 32°F to 122°F (0°C to 50°C)							
Operation Pressure Range	Atmospheric pressure to 0 microns							
Pressure Rating	450 PSIG MWP, 3000 PSIG Burst							
Accuracy	**Up to 2,000 microns** = 10% of reading +/- 5 microns							
Operating Range*	Power: **High** = Up to 250 ft. (76 m); **Normal** = Up to 175 ft. (53 m); **Low** = Up to 100 ft. (30 m)							
Resolution (microns)	2000	1000	500	100	50	20	10	1
Range	98000 to 76000	75000 to 50000	49500 to 25000	24900 to 10000	9950 to 5000	4980 to 1000	990 to 100	below 100
Operation Temperature Range	Compensated (accuracy as stated): 32°F to 122°F (0°C to 50°C) non-compensated (add +/- 0.5% error for every °C outside compensated range): -22°F to 158°F (-30°C to 70°C)							
Operating and Storage Humidity	0-95%, Non-condensing							
Storage Temperature	-40 to 185°F (-40°C to 85°C)							
Power Source	One 9 volt alkaline battery (ANSI 1604AC – IEC 6LR61)							
Battery Life*	Up to 20 hours continuous use.							
Auto-Off	10 minutes = default if no key pressed, no wireless connection, gauge not logging data.							
Mechanical Connection	Standard 1/4" female SAE refrigerant hose type with core depressor							
Warranty	1 year							

Wireless range and auto-off settings can be configured also on the app.

ADDITIONAL INFORMATION

For the latest product updates: visit **www.cpsproducts.com**
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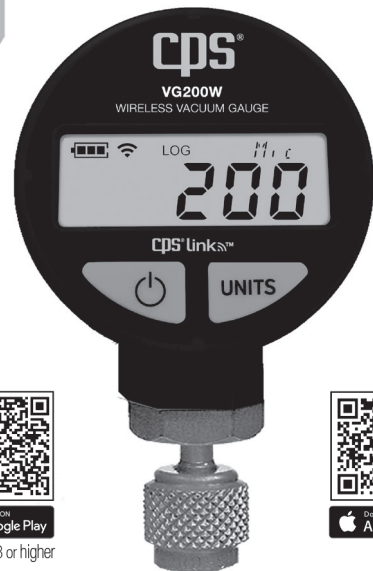**E-mail:** info@cpsproducts.com **Website:** www.cpsproducts.com

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TO BE OPERATED BY QUALIFIED PERSONNEL ONLY

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#73-175 Rev. B
030317TT

OVERVIEW

The VG200W is a precision digital vacuum gauge for obtaining accurate vacuum measurements during evacuations of HVAC and refrigeration systems. It is also ideal for obtaining vacuum data while conducting time, target, dynamic and static vacuum tests.

The VG200W may be used as a standalone gauge, or it may be paired with a mobile device (using the free CPS Link app) to input client contact information, graphically view and record test data in real time, and e mail stored information to others. All information can be read in 8 different languages and backed up on the cloud.

GAUGE LAYOUT & ACCESSORIES

Connection Icon
Data Log
Battery Indicator
Vacuum Unit
On/Off
4 Selectable Units
- Microns
- Millibar
- Inches Hg
- Torr

Stainless Steel T-Fitting (1/4" SAE Male to 1/4" SAE Female)

Stainless Steel Connector

Hanger Hook*

*Slides into slot above battery compartment on backside of gauge

Heavy Duty Storage Case
Not in scale

GENERAL SAFETY

QUICK START (GAUGE ONLY)

1. Install 9V battery.

2. Attach the VG200W in one of the following configurations:
   - A. Service manifold gauge set (using included "T-fitting")
   - B. Refrigerant system service ports (using included "T-fitting")
   - C. One of the two refrigerant systems service ports
   - D. Vacuum pump (using included "T-fitting")

3. Press and hold ON/OFF key (⏻) until bars are energized. Then release ON/OFF to proceed.

4. Initiate evacuation process (start vacuum pump) and monitor the VG200W until the desired pressure level is achieved.

LCD Bars Energized	Pressure (Inches Mercury Vac)	Millibar Vac
Top	> 18" hg vac	> 404
Top and middle	18" hg to 20" hg	404 to 336
Top, middle, bottom	20" hg to 22" hg	336 to 268
Middle and bottom	22" hg to 24" hg	268 to 201
Bottom	24" hg to 26" hg	201 to 133
Numeric value	< 26" hg	< 133

5. Manual-Off: Press and hold On/Off until display goes blank.
   Auto-Off: Powers down unit after 10 minutes of no use.

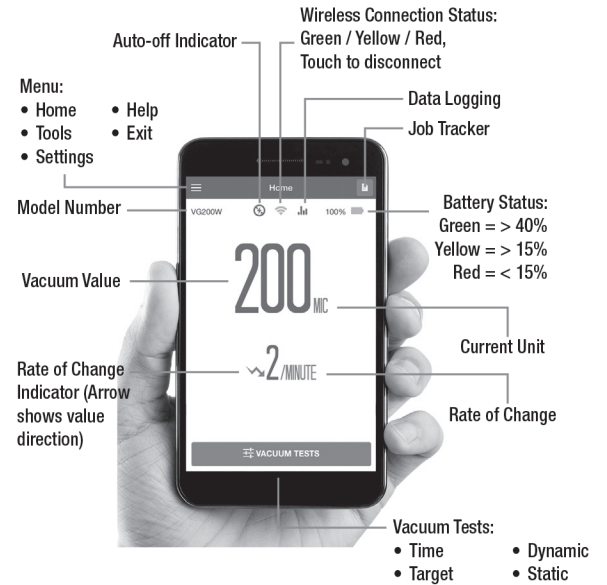### QUICK START (CPS Link APP)

1. To expand the capability of your gauge, simply pair VG200W with a mobile device. Follow the Quick Start Gauge Setup steps 1-3 (above) then the Link App steps 2-5 (next page). Once paired, you will be able to perform various vacuum tests; create or maintain job and client lists, log and share (e-mail) data and many other convenient tasks!

QUICK START (Link APP CONT.)

2. Scan **QR code** on front cover or download free **CPS Link**™ app from **Apple App Store (iOS devices)** or from **Google Play (Adroid devices)**.

3. Once app is connected, from "**Settings**": Select language and vacuum units.

5. You are now ready to work.

6. Manual-Off: Exit from menu. Auto-Off (10 minutes = Default): If no key pressed, no wireless connection, gauge not data logging.

APP HOME SCREEN (CONNECTION REQUIRED)

Auto-off Indicator

Wireless Connection Status: Green / Yellow / Red, Touch to disconnect

Menu:
- Home
- Tools
- Settings
- Help
- Exit

Data Logging
Job Tracker

Model Number

Battery Status:
Green = > 40%
Yellow = > 15%
Red = < 15%

Vacuum Value

Current Unit

Rate of Change Indicator (Arrow shows value direction)

Rate of Change

Vacuum Tests:
- Time
- Target
- Dynamic
- Static