CPS VG200

CPS VG200 Digital Vacuum Gauge User Manual

Model: VG200

1. Introduction and Overview

The CPS VG200 Digital Vacuum Gauge is a precision instrument designed for accurate vacuum measurement in HVAC/R systems. It features a self-heated thermistor bridge sensor with automatic temperature compensation, ensuring reliable readings. This manual provides essential information for the proper setup, operation, and maintenance of your VG200 gauge.

Figure 1: CPS VG200 Digital Vacuum Gauge with its carrying case and included accessories.

Key features include:

- **Accurate Measurement:** Calibrated to strict NIST standards for high accuracy.
- **Robust Sensor:** Advanced sensor design capable of withstanding 400 Psi of positive pressure.
- **Easy-to-Read Display:** Large 5-digit LCD provides a continual digital readout of the evacuation process.
- **User-Selectable Units:** Choose between microns, torr, in/hg, or mBar.

2. Setup

Before using your VG200 Digital Vacuum Gauge, please follow these setup instructions:

2.1. Unpacking and Inspection

Carefully remove all components from the packaging. The box should contain:

- One (1) VG200 Digital Vacuum Gauge
- One (1) Carrying Case
- One (1) Brass Adapter (if included with your model)

- One (1) Hook (if included with your model)

Inspect all items for any signs of damage. If any components are missing or damaged, contact your supplier immediately.

2.2. Battery Installation

The VG200 requires one (1) 9V battery for operation. To install the battery:

1. Locate the battery compartment on the rear of the unit.
2. Open the battery compartment cover.
3. Insert a new 9V battery, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

Figure 2: Close-up view of the VG200 gauge, showing the connection point for accessories.

3. Operating Instructions

Follow these steps for proper operation of your VG200 Digital Vacuum Gauge:

3.1. Connecting the Gauge

1. Ensure the system you are testing is depressurized and isolated.
2. Connect the VG200 gauge directly to the system's vacuum port or manifold using appropriate fittings. Ensure a tight, leak-free connection.

3.2. Powering On and Unit Selection

1. Press the **POWER** button to turn on the gauge. The LCD will illuminate and display the current vacuum reading.
2. To change the measurement units (microns, torr, in/hg, mBar), press the**UNITS** button repeatedly until your desired unit is displayed.

3.3. Taking a Vacuum Reading

Once connected and powered on, the VG200 will continuously display the vacuum level. Monitor the digital readout during the evacuation process. The large 5-digit LCD ensures clear visibility of the readings.

3.4. Powering Off

Press and hold the **POWER** button until the display turns off.
Note: No official product videos with "Seller" creator type were found for direct embedding in this manual.

4. Maintenance

Proper maintenance ensures the longevity and accuracy of your VG200 Digital Vacuum Gauge.

4.1. Sensor Cleaning

The VG200 features a field-cleanable sensor. If the sensor becomes contaminated or readings appear inaccurate, follow these steps:

1. Disconnect the gauge from any system.
2. Carefully clean the sensor port using a cotton swab lightly dampened with isopropyl alcohol.
3. Allow the sensor to air dry completely before re-connecting or using the gauge.

Caution: Do not use abrasive materials or harsh chemicals to clean the sensor or the gauge body.

4.2. Battery Replacement

Replace the 9V battery when the low battery indicator appears on the display or if the gauge fails to power on. Refer to Section 2.2 for battery installation instructions.

4.3. Storage

When not in use, store the VG200 in its protective carrying case in a cool, dry place, away from direct sunlight and extreme temperatures.

5. Troubleshooting

This section addresses common issues you might encounter with your VG200 Digital Vacuum Gauge.

5.1. Gauge Does Not Power On

- Check the battery: Ensure a fresh 9V battery is correctly installed with proper polarity.

- Battery contacts: Verify that the battery contacts are clean and making good connection.

5.2. Inaccurate or Erratic Readings

- Sensor contamination: Clean the sensor as described in Section 4.1.
- Leaks in the system: Check all connections for leaks in the vacuum system or manifold. Even small leaks can significantly affect readings.
- Environmental factors: Ensure the gauge is operating within its specified temperature range.

5.3. Display Issues

- Dim display: Replace the battery.
- No display: Ensure the unit is powered on and the battery is functional.

If you continue to experience issues after following these steps, please contact CPS customer support.

6. Specifications

Specification	Value
Model Number	VG200
Product Dimensions	1.97 x 4.33 x 3.15 inches
Item Weight	0.3 Kilograms (10.58 ounces)
Material	Plastic
Power Source	1 x 9V Battery (required)
Manufacturer	CPS
First Available Date	September 14, 2012
UPC	013317012192, 750377771033

7. Warranty Information

For detailed warranty information regarding your CPS VG200 Digital Vacuum Gauge, please refer to the official warranty statement provided with your product packaging or visit the official CPS website. Standard warranty terms typically cover manufacturing defects for a specified period from the date of purchase. Extended protection plans may also be available for purchase:

- 2-Year Protection Plan
- 3-Year Protection Plan
- Complete Protect (monthly plan)

These plans offer additional coverage beyond the manufacturer's standard warranty. Please review the terms and conditions of any protection plan before purchase.

8. Support and Contact

If you require further assistance or have questions not covered in this manual, please contact CPS customer

support.

- Manufacturer: CPS
- Official User Manual (PDF): Download PDF
- Visit the CPS Store: CPS Amazon Store