



DVR-22

VACUUM GAUGE



*Includes a
1/4" angled
adapter fitting*



OPERATING MANUAL

Introduction

Thank you for purchasing a JB Industries' DVR-22 Vacuum Gauge. This device is capable of accurately measuring the vacuum level in various systems used in the HVACR industry. This gauge displays vacuum readings on an easy-to-view back-lit LCD screen.

Specifications

Vacuum Range	9,000 micron – 20 microns
Resolution	1 micron; Resolution varies based on depth of vacuum
Sensor Type	Thermistor
Vacuum Units	Microns, Torr, mTorr, PSIA, mBar, Pascals, and InHg
Power Supply	Three AA batteries (included)
Battery Life	Approximately 55 hours
Operating Temperature	+32°F to 122°F (0°C to +50°C)
Storage Temperature	+14°F to 140°F (-10°C to +60°C)
Humidity	85% RH @113°F (45°C), non-condensing
Display	Backlit LCD
Unit Weight	9.5 oz

General Safety

Use caution when servicing all types of systems. Some refrigerants are flammable or toxic. Pipes, tubes, refrigerant and other components of HVACR equipment can be very hot (or very cold). Skin can easily be burned or frostbitten if refrigerants and components are touched. Use adequate personal protective equipment when servicing these systems. Follow all local and national codes, rules, and regulations when servicing HVACR equipment.

Features

- Measures vacuum levels in HVACR equipment
- Brass female 1/4" flare fitting easily attaches to common system fittings; Includes an angled adapter fitting for alternate positioning and improved visibility
- Large back-lit LCD display is easy-to-read
- Intuitive design saves the lowest vacuum reading
- Adjustable auto-off feature, long run-time, and battery life indicator
- Four button interface offers easy setting adjustments
- Durable plastic housing
- Robust vacuum sensor for accurate vacuum measurements and easy cleaning
- 1 year warranty
- Made in the USA 

PART NO.	DESCRIPTION
DVR-22	Vacuum Gauge and 1/4" Angled Adapter

Installing Batteries

1. Remove the screw from the cover on the back of the gauge
2. Place 3 AA batteries inside

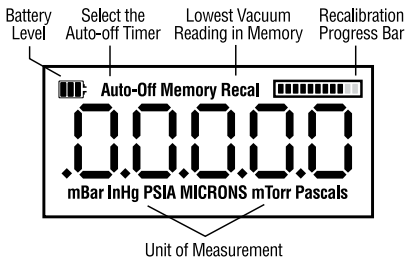
Note the orientation of the + and – side of the batteries. Re-install the cover and screw

Operating Instructions

Power Clamp On/Off

1. Press **POWER** button to turn on
2. Press and hold **POWER** button to turn off

Screen Icons/Definitions



Changing the Unit of Measurement

With the vacuum gauge on, press the **UNITS** button

Lowest Vacuum Reading

The gauge remembers the lowest reading

Press the **LOWEST VACUUM** button to view the lowest vacuum measurement in memory

Auto-off Timer

The DVR-22 will stay on for a user-defined period of time

After the time period expires, the unit will shut off to conserve battery life

The user can select a time period of 10 minutes, 30 minutes, or 60 minutes

Using the Vacuum gauge

Attaching the Gauge to a System

1. Prior to evacuating a system, ensure that there is no refrigerant in the system
2. Connect a vacuum pump to the system
3. Connect the vacuum gauge to an available ¼" port, or use valve core removal tools with side ports, and connect the gauge to the side port

Ideally, use a side port with a valve that can be closed to isolate the gauge from the system during the charging phase

4. Turn on the pump and read the DVR-22 display to view the vacuum level

Protecting the Sensor

Protect the sensor from high pressures and refrigerants during the charging cycle

Isolate the gauge from the system after evacuation is complete to prevent damage or contamination to the sensor

Cleaning the Sensor

If the sensor becomes contaminated with refrigerant or oil, it can be cleaned with isopropyl alcohol

1. Use a syringe or squeeze bottle filled with isopropyl alcohol; use the highest percentage of alcohol that can be obtained
2. Squeeze the alcohol into the ¼" fitting on the gauge
3. Place a finger over the fitting and shake the gauge to distribute the alcohol and cause it to move around the sensor
4. Drain the alcohol and repeat the procedure several times
5. Allow the unit to dry and test it on a system

If the reading is still not accurate, repeat the cleaning process

RETURN FOR REPAIR

Every effort has been made to provide reliable, superior quality products. However, in the event your instrument requires repair, please contact JB Customer Service Department to obtain a Return Goods Authorization (RGA) number. Ensure that all returned products are packed to avoid any damage in shipment. Paperwork should be placed in a separate plastic bag and should include JB's assigned RGA number, a description of the problem and any customer assigned repair or purchase order number, if applicable.

Contact Customer Service for RGA number:

800.323.0811 Toll-free
800.552.5593 Toll-free Fax

Products should be shipped with freight prepaid to:

JB Industries

RGA# _____

601 N. Farnsworth Ave., Aurora, IL 60505

Warranty

The DVR-22 is warranted against defects in materials and workmanship for 1 year from date of purchase. JB products are guaranteed when used in accordance with our guidelines and recommendations. Warranty is limited to the repair, replacement, or credit at invoice price, (our option) of products which in our opinion are defective due to workmanship and/or materials. In no case will we allow charges for labor, expense or consequential damage. Repairs performed on items out of warranty will be invoiced on a nominal basis; contact wholesaler for details. Additional product information available online at www.jbind.com.

WARNING: This product can expose you to chemicals including lead which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



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