



LDC-4000

COMBUSTIBLE GAS AND HC REFRIGERANT LEAK DETECTOR

Certifications:

Certified by the Mine Safety & Health Administration (MSHA) to be safe in a combustible atmosphere



OPERATING MANUAL

JBIND.COM



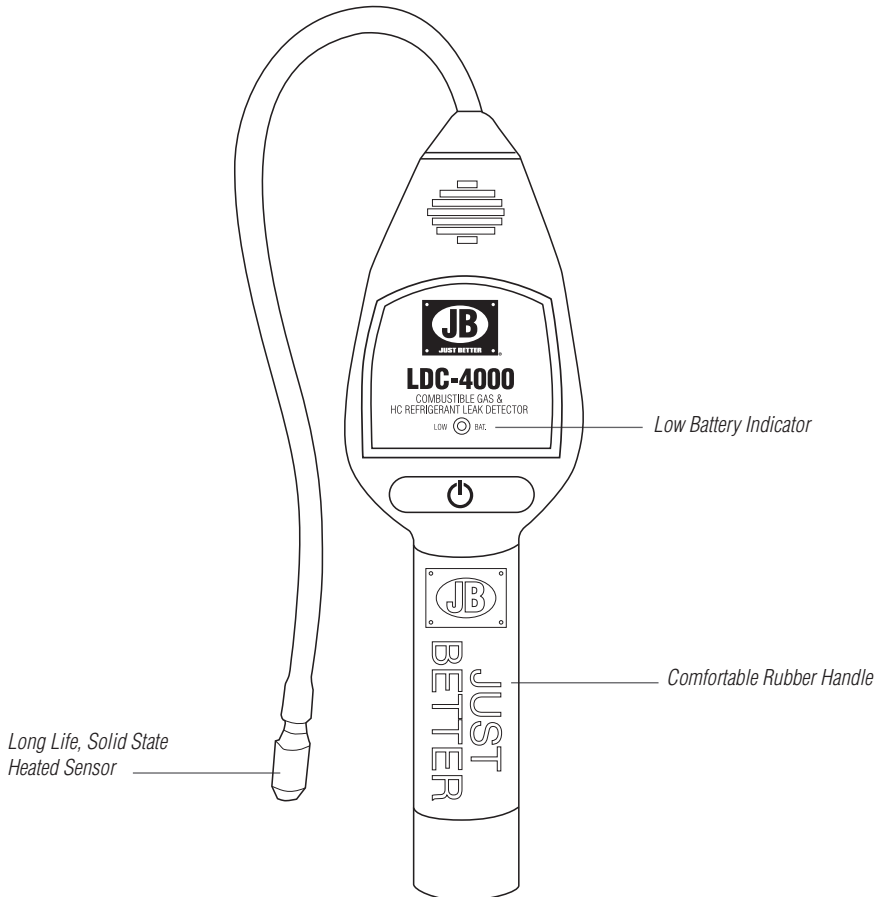


INTRODUCTION

The LDC-4000 intuitive technology features automatic calibration, one button operation and a long, flexible probe for easy access into hard to reach places. Long life, solid state heated sensor for combustible gas and HC refrigerants.

Features

- High sensitivity to all HC refrigerants and combustible gases
- Long life, solid state heated sensor
- Sensitive to < 5 ppm of methane
- Sensor life > 300 hours
- Automatic calibration and reset to ambient
- Comfortable rubber handle
- Intrinsically safe certified
- Low battery indicator
- 17" flexible probe
- Protective carrying case
- Operates with four AA batteries (included)
- 2 year warranty





SPECIFICATIONS

Product Specifications

Sensitivity	< 5 ppm methane
Sensor Life	> 300 hours
Response time	Instantaneous
Battery	Four AA batteries (included)
Battery Life	20 hours
Warm up time	< 10 seconds
Probe length	17" (43 cm)
Unit Weight	1.5 lbs (.68 kg)
Warranty	2 year warranty

Detects

DETECTS ALL HYDROCARBON AND COMBUSTIBLE GASES	
Methane (R-50)	Acetylene
Propane (R-290)	Methyl Ether
Ethane (R-170)	Ammonia
Butane (R-600)	Hydrogen Sulfide
Hydrogen	Industrial Solvents
Ethylene	Benzene
Ethanol	Alcohol
Iso-butane	Acetone
NOL	Toluene
Gasoline	Xylene





OPERATING INSTRUCTIONS

Install Batteries

Remove battery cover with a Phillips head screwdriver. Insert four AA batteries.

Power Settings

1. TURN ON/OFF: Press the ON/OFF button once to turn on and again to turn off.

NOTE: Hold button down for approximately one second to turn unit off.

2. WARM UP CYCLE: The detector automatically starts heating the sensor. During the heating cycle, the detector will sound a slow “beep”. Warm up time is usually less than 10 seconds.

3. READY MODE: The detector is ready to begin searching for leaks when the audio “beep” increases in frequency.

4. SEARCHING: When searching for leaks, move the sensor tip along A/C lines and fittings no further away than .37 in (9.5 mm) and no faster than 3 in/sec (75 mm/sec). If the detector alarms, make smaller sweeps back and forth until the leak source can be pinpointed. If a leak exists, the alarm will increase in rate and pitch.

Low Battery Indicator

Replace the four AA alkaline batteries when the red LED on the control panel is lit. Follow battery installation instructions in **MAINTENANCE** section.

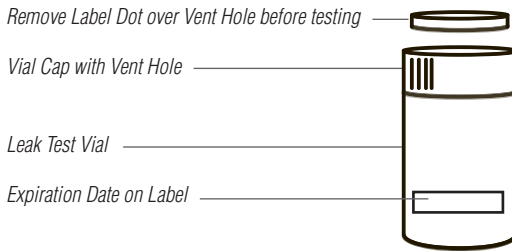


Leak Test Vial

Leak detector comes with a Leak Test Vial that allows the user to make sure the detector is operating properly.

To test:

1. Remove the colored label dot in the center of the screw cap to expose the vent hole in the top of the cap.
2. Turn on the leak detector and allow the instrument to complete the warm up cycle.
3. Place the sensor close to the small hole in the top of the Leak Test Vial. The beep rate should increase indicating that the sensor and the electronics are working properly.



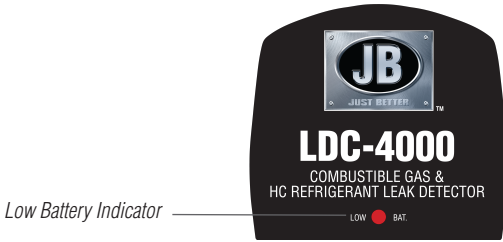


MAINTENANCE

Batteries

Low Battery Indicator

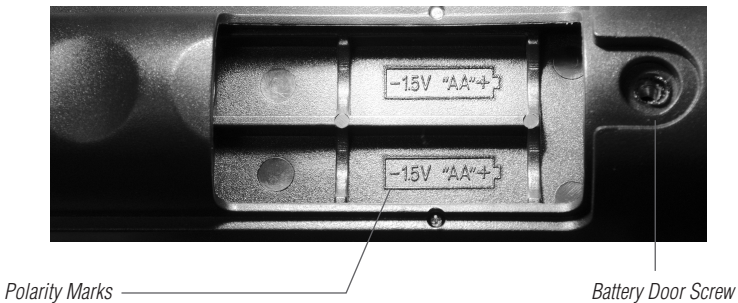
Replace the four AA Alkaline batteries when the red Low Battery Indicator light on the front of the instrument is lit.



Installing Batteries

Remove screw located at the top center of the housing and remove battery door. Insert all four batteries into the battery compartment in the same direction.

NOTE: Reference the polarity mark on the inside of the battery door for proper battery installation.

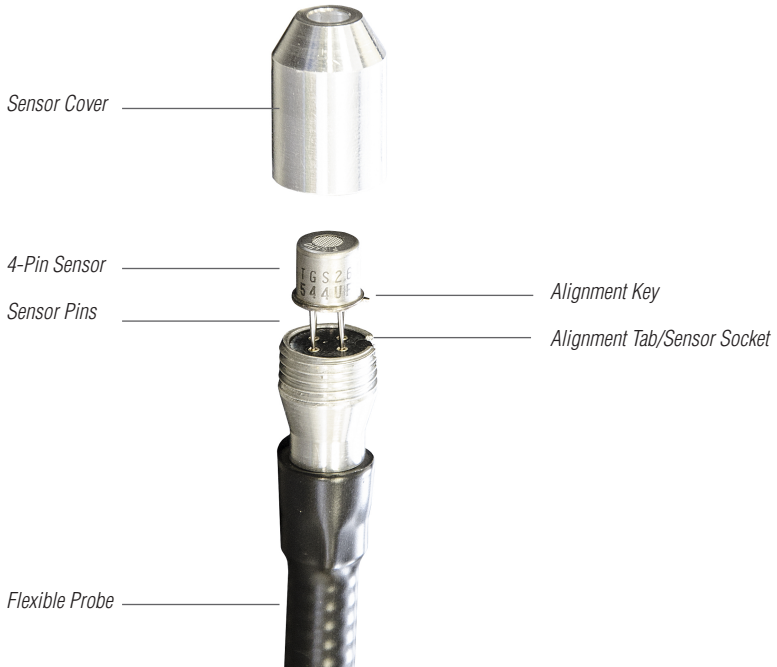




Replacing Sensor

1. Unscrew sensor tip as shown to replace filter. Replace filter whenever it becomes visibly dirty or every 2 to 3 months depending on use.
2. Push straight on to install (do not twist)

NOTE: Do not force sensor into socket—misalignment will damage sensor pins.



PARTS LIST

PART NO.	DESCRIPTION
LDC-4000	Combustible Gas and HC Refrigerant Leak Detector in case
LDC-4000-1	Replacement sensor (4 prong)
LDC-4000-2	Replacement sensor cover
LDC-4000-3	Combustible leak test vial
LDC-4000-4	Protective carrying case
LD-CS	Protective carrying case
LD-ST	Replacement sensor tip

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
800.552.5593 Toll Fax

Products should be shipped with freight prepaid to:

JB Industries
RGA# _____
601 N. Farnsworth Ave.
Aurora, IL 60505
630.851.9444 Tel
630.851.9448 Fax

WARRANTY

The LDC-4000 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.



JB INDUSTRIES