eL-320

Combustible Gas Leak Detector

User's Guide

Distributed by:
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CLASSIFIED BY UNDERWRITERS LABORATORIES, INC. ONLY AS TO FIRE, ELECTRICAL SHOCK, AND EXPLOSION HAZARDS IN CLASS I, DIVISION 2 GROUPS A, B, C, & D HAZARDOUS LOCATIONS. READ OWNER'S MANUAL BEFORE OPERATING. USE ONLY 1.5V 'AA' ALKALINE BATTERIES.

Congratulations on the purchase of the **AccuTools™ eL-320 Combustible Gas Leak Detector**, the most technologically advanced of its kind. The **eL-320**'s low power requirements, small size and high sensitivity combine to create a tool which is easy to handle and ultra effective at locating even the most difficult-to-find leaks.

The **eL-320**'s long life sensor will detect concentrations of combustible gases as low as 5 ppm. It is sensitive to all combustible gases.

The **eL-320** also features a low sensitivity mode, enabling quick and easy location of large combustible gas leaks.

TECHNICAL DATA

Dimensions	7.25" x 2.25" x 1.5" (19 cm x 5.7 cm x 3.8 cm)
Weight	7 oz. (190 grams)
Batteries	2 x 1.5V 'AA' Alkaline Batteries (3 VDC)
Battery Life	11 hours
Sensitivity	Less than 50 ppm (Propane, Iso-Butane, Methane)
Sensor lifetime	> 1 year normal use
Operating temperature	32 – 122°F (0 – 50°C)
Warm up time	25 seconds to 1.5 minutes
Calibration	Auto
Response time	5 seconds
Reset time	5 seconds or more depending on gas concentration
Probe length	12" (30 cm)

INSTRUCTIONS

1. Move the **eL-320** to a fresh-air environment. Press the button to turn the unit on.
2. The LED will flash rapidly for a period of time (see **WARM-UP TIME**, below) to indicate warm-up and auto-calibration, afterwards the unit will begin beeping and flashing green.
3. Unit turns on in the high sensitivity level, which is preferred for most small leaks. To operate the unit in the low sensitivity level, press the button twice (double-click like a computer mouse). The LED will fade from green to red and a sweeping sound effect of high to low pitch will be heard. This low sensitivity mode is useful for pinpointing very large gas leaks.
4. Double click again to change back to high sensitivity.
5. Move the probe towards a suspected gas leak at a rate of less than 1 inches (25 mm) per second, no more than ¼ inch (5 mm) away from the suspected source.
6. If a leak exists, the sound will increase in rate and pitch and the LED will start flashing rapidly.
7. Alarms caused by very large leaks may take a long time to clear. If this is the case, switch to the low sensitivity mode as detailed in (3) above.
8. To turn the **eL-320** off, press and hold the button for 3 seconds.

WARM-UP TIME

The warm-up time for the **eL-320** will range between 25 seconds and 1.5 minutes. Each sensor has different warm-up characteristics that change with use over the life of the sensor. The **eL-320** has built-in intelligence that recognizes sensor differences and adjusts the warm-up time automatically for maximum sensitivity and stability.

MISSING/DAMAGED SENSOR ALARM

If the sensor is damaged, a sweeping alarm and a red-green flash will indicate the problem.

BATTERY INDICATOR/LOW BATTERY SHUTDOWN

A flashing LED during normal operation also reflects the battery level:

- Green: Batteries are fresh.
- Orange: Batteries are low and should be changed.
- If the batteries are nearly empty, the LED will turn solid red and a two-tone alarm will be noted for 5 seconds, before **eL-320** will power itself off.
- If the unit is left on unattended, it will automatically turn off after about 5 minutes to conserve batteries.

RECALIBRATION

When the **eL-320** is turned on, the unit automatically calibrates the sensor for maximum sensitivity. Occasionally, the signal from the sensor may drift (especially if moving from one location to another where the ambient humidity changes), causing a continuous alarm that will not clear. In this case, simply power the unit off and on again, or use the following recalibration procedure:

To recalibrate the unit:

1. Move the unit away from any suspected leaks and into fresh air.
2. Quickly press the button four (4) times. This must be done within one second.
3. The LED will flash rapidly for about 10 seconds, indicating recalibration.
4. The unit will return to normal operation in the high sensitivity mode.

BATTERY INSTALLATION AND REPLACEMENT

1. Turn the power off.
2. Remove the battery cover from the back of the instrument by loosening the battery cover screw and lifting the battery cover off.
3. Insert 2 size 'AA' alkaline batteries, observing proper battery polarity.
4. Replace battery cover and tighten battery cover screw.

SENSOR

A **eL-320** sensor should last many hundreds of hours of continuous operation. A failed or failing sensor will be indicated by a continuous "siren" sound. In addition, it is recommended that the sensor be replaced yearly for optimum performance.

SENSOR REPLACEMENT

In either case, occasional replacement of the sensor is necessary:

1. Turn the power off.
2. Remove the sensor cap by pulling it from the end of the probe.
3. Pull the old sensor from the socket.
4. Install the new sensor. Note that the sensor package has a tab that needs to be aligned with a slot on the sensor socket.
5. Install the sensor cap by pushing it fully over the sensor.

Replacement sensor

Part Number **ELS-3**

MAINTENANCE

The EL-320 should provide years of service with little maintenance aside from changing batteries and sensors. The case may be cleaned with a shop towel moistened with water and a mild detergent. Do not use solvent of any kind.

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Warranty and Repair

1 Year Limited Warranty

Core Enterprises, Inc. warrants that this AccuTools™ product conforms to Core Enterprises, Inc. published specifications and will be free from defects in material and workmanship. The duration is for a period of one year from the date of purchase. Core Enterprises, Inc., at its option, will repair or replace this product or any component of the product found to be defective during the warranty period. Replacement will be made with a new or remanufactured product or component. This is your exclusive warranty.

This warranty is valid for the original retail purchaser from the date of initial retail purchase and is not transferable. Keep the original sales receipt. Proof of purchase is required to obtain warranty performance. Core Enterprises, Inc. dealers, service centers, or retail stores selling Core Enterprises, Inc. products do not have the right to alter, modify or any way change the terms and conditions of this warranty.

This warranty does not cover batteries or any other normal wear of parts or damage resulting from any of the following: negligent use or misuse of the product, damage caused by use of the product for purposes other than those for which was designed, use contrary to the operating instructions, disassembly, repair or alteration by anyone other than Core Enterprises, Inc. or an authorized Core Enterprises, Inc. service center. Further, the warranty does not cover: Acts of God, such as fire, flood, lightning, hurricanes and tornadoes.

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Some states or jurisdictions do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights that vary from state to state or jurisdiction to jurisdiction.

How to Obtain Warranty and Repair Service

To obtain warranty or repair service, please call (954) 227 0781 to obtain a RMA number. For warranty service, a legible copy of the original receipt must be sent along with the RMA Form. Any package received without this RMA number will be refused. The returned product must be properly packaged and insured against shipping damage. Any shipping damage resulting from improper packaging shall be the responsibility of the Purchaser. The repaired or replaced product will be returned to Purchaser, freight prepaid via UPS ground only. Repaired or replaced units carry an additional 90 days warranty.

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