



TEST INSTRUMENTS CD100A Combustible Gas Leak Detector Instruction Manual

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Combustible Gas Leak Detector INSTRUCTION MANUAL



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SAFETY TIPS

One year limited warranty

Using this detector, read all safety information carefully.

“**WARNING**” is used to indicate conditions or actions that may pose physical hazards to the user.

“**CAUTION**” is used to indicate conditions or actions that may damage this instrument.



WARNING!

Charging or discharging batteries may give off an explosive gas. Keep away from open flame and sources of ignition from the battery at all times.

INTRODUCTION

The CD100A Combustible Gas Leak Detector is capable of sensing many combustible, non-combustible and toxic gases that include but are not limited to the following:

Acetone	Industrial Solvents
Alcohol	Jet Fuel
Ammonia	Lacquer Thinners
Benzene	Methane
Butane	Naphtha
Ethylene Oxide	Natural Gas
Gasoline-Petrol	Propane
Halon	Refrigerants
Hydrogen Sulfide	Toluene

NOTE: This leak detector is factory calibrated for methane in air.











WARNING! This unit should not be used for detection of Carbon Monoxide.

Features include

- Fully adjustable steady tic rate accelerates as the sensor tip approaches a leak (the adjustment knob is located on the side of the unit)
- “Tip-Light” in sensor cover used to see around the area of leak in a dark environment
- Long 18” flexible gooseneck
- Audible and visual leak indicator
- Low battery indicator and separate battery compartment for easy replacement
- Power On light
- Solid state semiconductor sensor provides instantaneous detection
- Sensor cover to protect sensor
- Ruggedized protective rubber boot
- Socket for optional earphone

INTERNATIONAL SYMBOLS

 Dangerous Voltage	 Ground
~ AC Alternating Current	 Warning or Caution
 DC Direct Current	 Double Insulation (Protection Class II)
 Either AC or DC	 Fuse
 Not Applicable to Identified Model	Battery



FUNCTIONS

- Senses leading combustible, non-combustible, and toxic gases
- Minimum detection: 50 ppm methane

FEATURES

- Long 18” gooseneck for hard to reach areas
- Tip-light in sensor cap illuminates the search area
- Sensor provides accurate detection
- Audio and visual tic rate, fully adjustable
- Headphone jack
- Low battery indication
- Sensor cover
- Protective boot

OPERATING INSTRUCTIONS

1. Turn the instrument on by rotating the thumbwheel downward in a non-contaminated environment (fresh air).
2. The green power LED will be illuminated when the unit is turned on. If the battery level is low, the red LED will be steady and the tic will not be adjustable. The battery will need replacing.
3. Adjust to slow uniform tic rate with the use of the thumbwheel (approximately two tics per second). This sets the instrument to the background level. Start your testing by setting the instrument in fresh air. The red LED indicator will flash in correspondence with the tic rate. Allow about 10 seconds for the sensor to stabilize indicated by a steady tic rate. (It may require up to two minutes to stabilize).
4. The unit responds to gas with a variable audible tic sound. The audible tic increases in volume when exposed to gases with 50 parts per million or more. When gas is detected, the tic rate will increase, rotate the thumbwheel back to the steady tic, resetting the instrument to this new background level. Move the instrument into higher concentrations of gas (indicated by increase tic rate) until the leak is found.
5. The "Tip-Light" is used to see around the area of the leak in a dark environment.
6. When this instrument is used in noisy environments, look at the red LED, which flashes more rapidly as the tic rate increases. The optional earphone can be plugged into the side of the unit, if there is high background noise or the operator does not want to disturb other people. This also disables the speaker.
7. If the tic rate becomes uncontrollable, it may be necessary to change the sensor.
8. The detector will respond to some leak finding solution (soap), so use your detector first. If over exposed to some gases, the detector may take an extended period of time to return to normal.

SPECIFICATIONS

Power supply	1 x 9V battery
Sensor	Solid state semi conductor
Sensitivity	< 50 ppm methane
Indicators	Audible: Adjustable tic rate Visual: Flashing LED
Warm-up	10 seconds
Response Time	Instantaneous
Duty Cycle	Continuous
Battery Life	5 hrs. typical use
Dimensions	8" (H) x 4" (W) x 1/2" (D)
Weight	15oz.
Probe Length	400mm
Operative	0 – 50°C / 32 – 122°F

Note the locating pin between the body and sensor cap.

Protection against electric shock in accordance with EN 61010-1: 1993

This instrument is designated as Class III, SELV.

SENSOR FILTER AND SENSOR REPLACEMENT

The sensor is housed at the tip of the gooseneck assembly, and has a life of more than three years.
To remove the sensor:

1. Turn the unit off.
2. Pull off the top half of the sensor housing. (Pushing to one side aids removal)
3. With care, move the “Tip-Light” LED to one side to gain access to the sensor (small silver can).
4. Unplug the sensor and replace it with a new one.
5. The sensor can be fitted in either one of two ways without affecting instrument operation.
6. Realign the LED, ensuring it sits above the sensor.
7. Replace the sensor cover by pushing it firmly in place.

BATTERY REPLACEMENT

1. Turn off the power and remove the battery case cover.
2. Remove and dispose of old 9V alkaline battery promptly in a manner consistent with disposal regulations.
Always use a 9V alkaline battery. Ensure the polarity of the battery matches that shown in the compartment.
3. Replace the battery case cover.

REPLACEMENT PARTS

Replacement Sensor	RS1000
Replacement Sensor Cap	RS1010

OPTIONAL ACCESSORIES

Headset Earphones	HE1000
Soft Carrying Case	AC519

ELECTROMAGNETIC COMPATIBILITY

The European Council Directive 89/366/EEC requires that electronic equipment does not generate electromagnetic disturbances that exceed defined levels and has an adequate level of immunity to enable it to be operated as intended. The specific standards applicable to this product are detailed in the appendices.

Since there are many electrical products in use that pre-date this directive and may emit electromagnetic radiation in excess of the standards defined in the directive, it may be appropriate to check the analyzer prior to use. The following procedure should be adopted:

1. Go through the normal start sequence in the location where the equipment is to be used.
2. Switch on all localized electrical equipment that might cause interference.
3. Check that all readings are as expected. (Generally, a low disturbance is acceptable.) If not, adjust the position of the instrument to minimize interference or switch off the offending equipment during the test. There has been no awareness of any field based situation where such interference has ever occurred since the writing of this manual (April 1998). This advice is only given to satisfy the requirements of the directive.

This product has been tested for compliance with the following generic standards, and it is certified to be compliant.

EN 50081-1 • EN 50082-1

Specifications EC/EMC/K1/CD100A details the specific test configuration, performance and conditions of use.

WARRANTY

The CD100A is warranted to be free from defects in materials and workmanship for a period of one year from the date of purchase. If within the warranty period your instrument should become inoperative from such defects, the unit will be repaired or replaced at UEi's option. This warranty covers normal use and does not cover damage which occurs in shipment or failure which results from alteration, tampering, accident, misuse, abuse, neglect or improper maintenance. Batteries and consequential damage resulting from failed batteries are not covered by warranty.

Any implied warranties, including but not limited to implied warranties of merchantability and fitness for a particular purpose, are limited to the express warranty. UEi shall not be liable for loss of use of the instrument or other incidental or consequential damages, expenses, or economic loss, or for any claim or claims for such damage, expenses or economic loss. A purchase receipt or other proof of original purchase date will be required before warranty repairs will be rendered. Instruments out of warranty will be repaired (when repairable) for a service charge. Return the unit postage paid and insured to:

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[1-800-547-5740](tel:1-800-547-5740)

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This warranty gives you specific legal rights. You may also have other rights, which vary from state to state.

DISPOSAL



CAUTION: This symbol indicates that equipment and its accessories shall be subject to separate collection and correct disposal.

CLEANING

Periodically clean your meters' case using a damp cloth. DO NOT use abrasive, flammable liquids, cleaning solvents, or strong detergents as they may damage the finish, impair safety, or affect the reliability of the structural components.

STORAGE

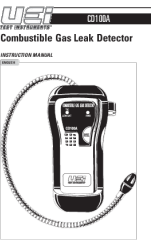
Remove the batteries when instrument is not in use for a prolonged period of time. Do not expose to high temperatures or humidity. After a period of storage in extreme conditions exceeding the limits mentioned in the General Specifications section, allow the instrument to return to normal operating conditions before using it.

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Documents / Resources

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References

- [U&I Kane USA](#)
- [User Manual](#)

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