tif 8850

Combustible Gas Detector

With Visual Leak Size Indicators and Audio Mute

OWNER'S MANUAL

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GENERAL DESCRIPTION

The 8850 is a broad-band, battery operated, solid state electronic combustible gas detector.

This instrument provides a "geiger counter" ticking signal which increases in frequency as the source of combustible gas or vapor is approached. It is excellent for pinpointing the location of combustible gas leaks as minute as 5 PPM. The unit includes a carrying case, rechargeable batteries and recharger.

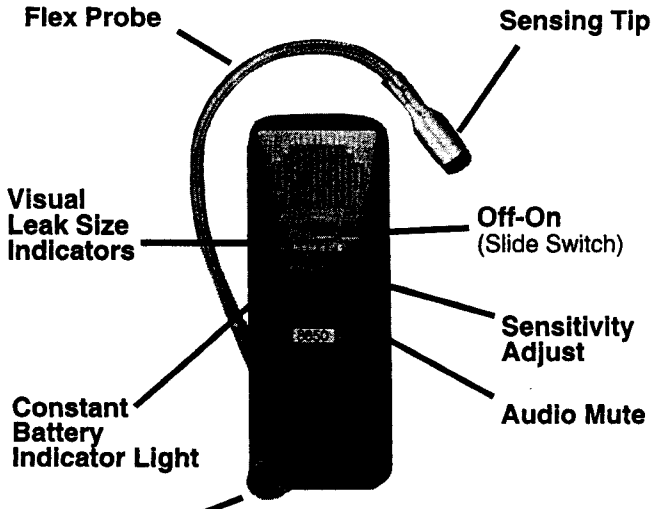
The unit is also equipped with an exclusive "Audio Mute" feature. A momentary switch is incorporated on the front of the unit which silences the audio signal. This featue is useful in home and/or office environments where an alarm can be distracting.

ATTENTION:
Batteries must be charged for 24 hours before initial use. If this is not done, the unit will not function properly.

CLASSIFIED UL 71M3

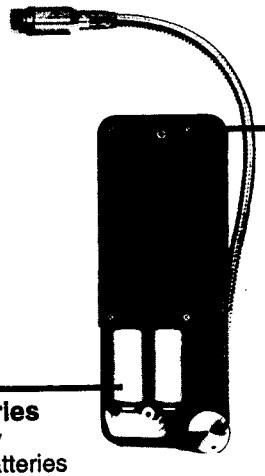
CLASSIFIED BY UNDERWRITERS LABORATORIES INC• ONLY AS TO INTRINSIC SAFETY IN CLASS I GROUPS A, B, C, & D HAZARDOUS LOCATIONS

PARTS AND CONTROLS



Probe Knob
Before rotating flex probe, loosen probe knob 2 full turn counter-clockwise

PARTS AND CONTROLS



Battery Charger Jack
Plug battery charger into electrical outlet and insert the plug into the instrument jack.

TIF8806 Ni-Cad Batteries
Remove battery cover. Install batteries as indicated in the battery compartment.

WARNING:
Damage to batteries and unit **WILL** occur if batteries are installed backwards.

FEATURES

- Audio Mute control.
- Audible "geiger counter" signal.
- Visual Leak Size Indicators
- Adjustable sensitivity.
- Cordless operation.
- Fast warm-up.
- Low battery indicator.
- Made in U.S.A.

OPERATING INSTRUCTIONS

Turn the sensitivity control fully counter clockwise. Turn the instrument on in a non-contaminated atmosphere by moving the slide switch to the"ON" position. The power light should be lit. No sound will be heard.

After the automatic warmup period is completed, about 30 seconds, a ticking sound will be heard.

Adjust the sensitivity control until a rapid ticking signal is heard (Hi sensitivity).

The frequency of the tick is an indication of the sensitivity. Rotate the knob until the ticking is rapid, for Hi sensitivity, or slow, for Low sensitivity.

OPERATING INSTRUCTIONS

Search the general area of the leak. When a detectable compound enters the tip, the signal speeds up.

In most cases, it will not be necessary to adjust the sensitivity of the unit. However, if the siren sounds before a possible leak source can be found it is likely that the air is contaminated with heavy concentrations of gas. Therefore, you may desensitize the instrument by turning the control knob counterclockwise to Lo sensitivity (slow ticking).

If you are searching for extremely small leaks, make certain the control knob is in the Hi sensitivity position (rapid ticking).

Occasionally, on newly installed piping, a joint compound may be used which contains a combustible solvent. This could result in an erroneous signal.

Audio Mute

At any point during a leak search the audible signal may be silenced simply by pressing the "Audio Mute" button on the front of the unit (see Figure, p.3). The speaker will be silenced ONLY while the button is depressed. Alarm signals are now communicated only through the Visual Leak Indicators.

PRODUCT WARNINGS

Caution:

- The unit should always be switched on and calibrated in non-contaminated atmosphere in order to insure correct operation and indication.
- Approach suspected hazardous areas with the unit on.
- Always check the instrument on a known combustible leak source before using.

WARNING!

- Batteries must only be changed or recharged in an area known to be nonhazardous. To avoid damage to the recharger or unit, make sure the recharger plug is completely plugged into the unit and the batteries are installed in the correct orientation.

- After the automatic warm-up period, turn the sensitivity adjustment knob from left to right (full clockwise rotation). A change in the ticking rate should be heard ascending from a ticking sound to a siren. If this does not occur, do not use the instrument! Recharge the batteries and/or replace sensing element. Repeat the above described test procedure. If this does not correct the problem, the instrument should be returned for repair.

APPLICATIONS

The 8850 is a general purpose combustible gas detector which may be used in almost any situation where a combustible gas, vapor or residue needs to be found. Some applications are:

- Gas lines and pipes
- Fuel in marine bilges
- Exhaust and fuel leaks
- Liquid or gas fired heating systems
- Propane filling stations
- Check manholes for safety

Note: Although the unit will respond to high levels of Carbon Monoxide (above 2000ppm), it should not be used as a detector for this gas in normal room or working atmospheres. It can, however, be used to pinpoint a known leak as described in the Operating Instructions.

MAINTENANCE

The unit is equipped with a low battery indicator. When the instrument is turned on, the indicator should be lit. If the light is not on, then recharge the batteries, using the recharger.

BATTERY PERFORMANACE

To install batteries, unscrew and remove the battery cover (see figure on page 4). Be sure to install batteries as indicated in the battery compartment. Before operating the instrument, the batteries must be initially charged for 24 hours.

TO RECHARGE BATTERIES

With the tool switched off, plug your recharger into the jack on the back on the instrument and plug it into an electrical outlet in a nonhazardous area; See Warnings and Cautions on p.7.

SPECIFICATIONS

For the SAFT NiCad batteries:	(2) 2.4v/.75 ampere hour
Continuous Operation Time:	Approximately 4 hours
Power Supply	4.8v; Ni-Cad Rechargeable batteries
Sensitivity:	Variable, as low as 5ppm (gasoline)
Operating Temperature Range:	32° to 125° F
Duty Cycle:	Continuous; no limitation.
Response Time:	Instantaneous
Warm-Up Time:	Approximately 30 seconds
Weight:	16 ounces
Dimensions:	8" x 3" x 1.8"
Probe Length:	15"

WARRANTY

Limited Warranty and Repair/Exchange Policy

This instrument has been designed and manufactured to provide unlimited service. Should the unit be inoperative, after performing the recommended maintenance, a no charge repair or replacement will be made to the original purchaser if the claim is made within one year from the date of purchase. This warranty applies to all repairable instruments that have not been tampered with or damaged through improper use.

This warranty does not cover batteries, or any other materials that wear out during normal operation of the instrument.

Returning Your Unit For Repair

Before returning your instrument for repair please make sure that you have carefully reviewed the **Unit Maintenance** section of this manual to determine if the problem can be easily solved.

If the instrument still fails to work properly send the unit to the repair facility address on the back cover of this manual. Repaired or replaced tools will carry an additional 90 day warranty. For more information please call (800) 327-5060.