

Combustible Gas Detectors

OWNER'S MANUAL

Covers: TIF8800 Combustible Gas Detector
and
TIF8800A Combustible Gas Detector
w/Visual Leak Size Indicators

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GENERAL INFORMATION



The 8800 tools are broad-band, battery operated, solid state electronic combustible gas detectors.

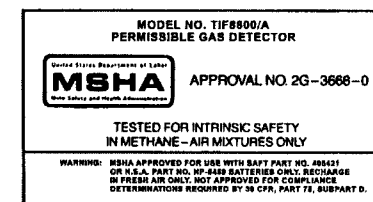
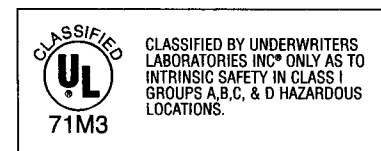
The instruments provide a "geiger counter" ticking signal which increases in frequency as the source of combustible gas or vapor is approached. They are excellent for pinpointing the location of combustible gas leaks as minute as 5 PPM. These units include a carrying case, rechargeable batteries and recharger.

The units are ideal for pinpointing known leaks, checking for leaks and verifying safety of potentially hazardous locations.

NOTE: This manual covers both the TIF8800 and TIF8800A models. The only difference is the addition of six (6) Visual Leak Size Indicators on the TIF8800A. Operation and use is identical; any specifics for the TIF8800A only, are identified as such within the text.

ATTENTION:

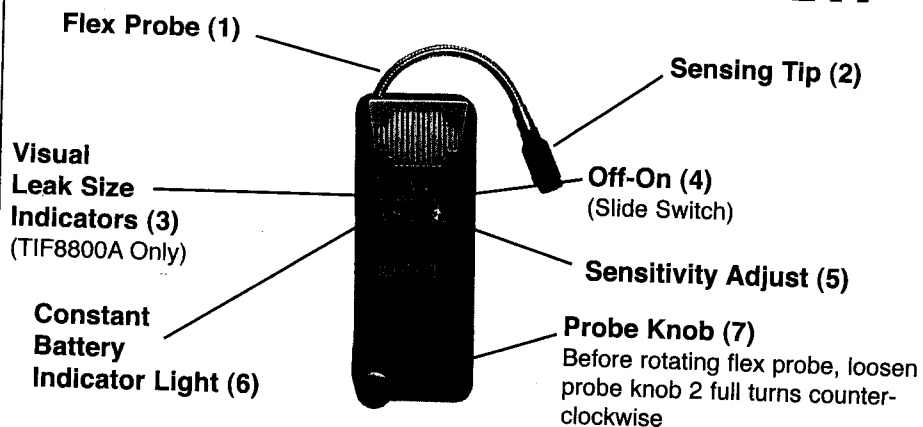
Batteries must be charged for 24 hours before initial use. If this is not done, the unit will not function properly.



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PARTS AND CONTROLS



TIF8806 (9) Ni-Cad Batteries
Remove battery cover. Install batteries as indicated in the battery compartment.



Battery Charger Jack (8)
Plug battery charger into electrical outlet and insert the plug into the instrument jack.

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

Español

- (1) Sonda flexible
- (2) Punta sensora
- (3) Indicadores visuales del tamaño de la fuga (TIF8800A solamente)
- (4) Off-On (Interruptor deslizante)
- (5) Ajuste de la sensibilidad
- (6) Luz indicadora constante de la batería
- (7) Perilla de la sonda. Antes de girar la sonda flexible afloje la perilla de la sonda con 2 vueltas completas en sentido contrario a las manecillas del reloj.
- (8) Enchufe del cargador de la batería. Conecte el cargador de la batería al tomacorriente e inserte el enchufe en la toma del instrumento.
- (9) TIF8806 Baterías Ni-Cad. Quite la tapa de la batería. Instale las baterías en la forma que se indica en el compartimiento para las baterías.

Français

- (1) Sonde flexible
- (2) Pointe de détection
- (3) Témoins lumineux de niveau de fuite (TIF8800A seulement)
- (4) Marche-arrêt (Interrupteur d'alimentation à glissière)
- (5) Réglage de la sensibilité.
- (6) Témoin de charge de pile
- (7) Bouton de la sonde. Avant de tourner la sonde flexible, faites deux tours complets dans le sens contraire des aiguilles d'une montre pour dévisser le bouton.
- (8) Prise du chargeur de piles. Branchez le chargeur de piles à la prise d'alimentation et insérez la fiche dans la prise de l'appareil.
- (9) TIF8806 Piles au Cadmium-Nickel Retirez le couvercle du logement des piles. Installez les piles en suivant les indications figurant dans le logement.

Deutsch

- (1) Flexsonde
- (2) Sondenspitze
- (3) Visuelle Leckstärkenanzeige (Nur TIF8800A)
- (4) Ein-Aus (Schiebeschalter)
- (5) Empfindlichkeitsregler
- (6) Konstante Batteriestatusanzeige
- (7) Sondenknopf Vor dem Drehen der Sonde den Sondenknopf um 2 volle Umdrehungen gegen den Uhrzeigersinn lockern.
- (8) Anschlußbuchse für Batterie-Ladegerät Das Batterie-Ladegerät an einer Steckdose und am Gerät anschließen.
- (9) TIF8806 Ni-Cad-Batterien. Abdeckung vom Batteriefach ebnehmen. Batterien wie dargestellt im Batteriefach einsetzen.

FEATURES

- Audible "geiger counter" signal.
- Visual Leak Size Indicators (TIF8800A only)
- Adjustable sensitivity
- Cordless operation
- Fast warm-up
- Low battery indicator
- Made in the U.S.A.
- One Year Warranty

SET-UP

Before using your new instrument, it is necessary to install and charge the supplied Ni-Cad batteries. NOTE the Warnings and Cautions below.

1. Install batteries as indicated in the diagram on page 3- pay careful attention to the polarity indication.
2. Place the unit in a non-hazardous location and plug the charger into an electrical outlet.
3. Insert the plug into the jack on the back of the instrument.
4. Initially it is necessary to charge the batteries for 24 hours. Subsequent recharges can normally be done in approximately 12-16 hours.

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 non-hazardous. 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.

OPERATING INSTRUCTIONS



Once the batteries are fully charged, the instrument is ready to use (before use, carefully read and understand the Warnings and Cautions on the previous page).

1. Turn the sensitivity control fully counter clockwise.
2. 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.
3. After the automatic warmup period is completed, about 30 seconds, a ticking sound will be heard.
4. Adjust the sensitivity control until a rapid ticking signal is heard (Hi sensitivity).
5. 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 Lo sensitivity.

NOTE: If a steady tick rate cannot be maintained, it is indicative that the batteries may need to be recharged.

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

TIF8800A Only- In conjunction with the increased tick rate, the LEDs will light from left to right as a combustible is detected. The larger the concentration, the more LEDs will light.

7. 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 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).
8. If you are searching for extremely small leaks, make certain the control knob is in the Hi sensitivity position (rapid ticking).

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

APPLICATIONS



The 8800 series are general purpose combustible gas detectors 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

APPLICATIONS



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 leak as described in the Operating Instructions.

MAINTENANCE



BATTERY PERFORMANCE

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

To install batteries, unscrew and remove the battery cover (see figure on page 3). Be sure to install batteries as indicated in the battery compartment. Before operating the instrument, new batteries must be initially charged for 24 hours.

TO RECHARGE BATTERIES

With the tool switch off, plug your recharger into the jack on the back of the instrument and plug it into an electrical outlet in a non-hazardous area; See Warnings and Cautions on p.4.

SPECIFICATIONS



For the SAFT and NEA 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 (0° to 52°C)
Duty Cycle:	Continuous; no limitation
Response Time:	Instantaneous
Warm-Up Time:	Approximately 30 seconds
Weight:	16 ounces (450 grams)
Dimensions:	8" x 3" x 1.8" (20.3 x 7.6 x 4.6 cm)
Probe Length:	15" (38 cm)

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