

OWNER'S MANUAL
MANUAL DEL PROPRIETARIO
MANUEL DE L'UTILISATEUR
BEDIENUNGSANLEITUNG

**TIF8900** 



# TABLE OF CONTENTS

General Information2
Parts & Controls3
Features4
Set-up4
Warnings & Cautions4
Operating Instructions5
Applications5
Maintenance6
Specifications6
Replacement Parts6
Warranty7
Español 7
Français12
Deutsch

# GENERAL INFORMATION



The TIF8900 tool is broad-band, battery operated, solid state electronic combustible gas detector.

The 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 pin-pointing the location of combustible gas leaks as low as 5 PPM. This unit includes a carrying case, owner's manual, rechargeable batteries and recharger.

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

#### ATTENTION:

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

#### WARNING:

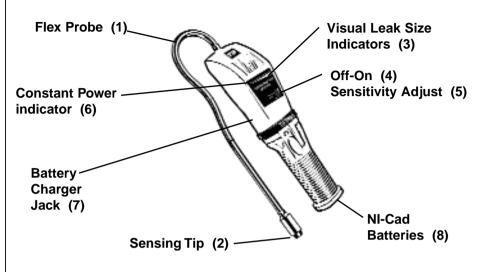
Damage to batteries and unit WILL occur if batteries are installed backwards.

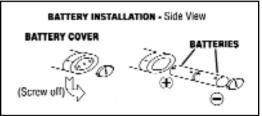


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# PARTS AND CONTROLS







### **Español**

- (1) Sonda flexible
- (2) Punta sensora
- (3) Indicadores visuales del tamaño de la fuga
- (4) Off-On (Interruptor deslizante)
- (5) Adjuste de la sensibilidad
- (6) Luz indicatdora constante de la hatería
- (7) Enchufe del cargador de la batería. Conecte el cargador al tomacorriente e inserte el enchufe en la toma del instrumento.
- (8) 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
- (4) Marche-arrêt (Interrupteur d'alimentation à glissière)
- (5) Réglage de la sensibilité.
- (6) Témoin de charge de pile
- (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.
- (8) TIF8806 Piles au Ni-cad
  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
- (4) Ein-Aus (Schiebeschalter)
- (5) Empfindlichkeitsregler
- (6) Konstante Batteriestatusanzeige
- (7) Anschlußbuchse für Batterie-Ladegerät Das Batterie-Ladegerät an einer Steckdose und am Gerät anschließen.
- (8) TIF8806 Ni-Cad-Batterien.
  Abdeckung vom Batteriefach
  ebnehmen. Batterien wie
  dargestellt im Batteriefach einsetzen.

- **FEATURES**
- Solid state sensor technology, long life and precision
- Broad band of combustible gas detection
- Sensitivity as low as 5 ppm
- · Adjustable sensitivity
- Audible "Geiger counter" signal
- · LED Leak Intensity Lights

- Automatic warm up
- Cordless operation
- Flexible 16" stainless probe for hard to reach places
- · Rechargeable battery and charger included
- Rugged custom carrying case
- Made in the USA

# **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.

- Install batteries as indicated in the diagram on page 3; pay careful attention to the polarity 1. indication.
- Place the unit in a non-hazardous location and plug the charger into an electrical outlet. 2.
- Insert the plug into the jack on the back of the instrument.

Note: Initially it is necessary to charge the batteries for 24 hours. Subsequent recharges can normally be done in approximately 12-16 hours.

# WARNINGS & CAUTIONS



#### 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.
- Do not operate the unit with charger plugged into the wall outlet.
- After the automatic warm-up period, move the sensitivity adjustment through its complete range. 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 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.
- 2. The leftmost LED will illuminate to show that the unit is switched on.
- After the automatic warmup period is completed, about 30 seconds, a ticking sound will be heard.
- 4. Adjust the sensitivity control upwards until a rapid ticking signal is heard (Hi sensitivity).
- 5. The frequency of the tick is an indication of the sensitivity. Move 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.
- 7. 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.
- 8. 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 moving the adjustment control downwards to Lo sensitivity (slow ticking).
- 9. 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 TIF8900 is a general purpose combustible gas detectors which may be used in a situation where a combustible gas, vapor or residue needs to be found. Some applications are: **Note:** Although the unit will respond to high levels of Carbon Monoxide (above 2000ppm), it

- Gas lines and pipes
- · Fuel in marine bilges
- Exhaust and fuel leaks
- Heat Exchanger leaks
- Liquid or gas fired heating systems
- Propane filling stations
- Check manholes for safety
- Detect arson residue
- · Indor Air Quality (IAQ) tests

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.

**NOTE:** Each battery in your TIF8900 is an unique Ni-Cad cell. Use only TIF replacement batteries recomended in the replacement parts. Any other typical Ni-Cad battery will not function correctly.

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 Ni-Cad batteries: Two 2.4V/0.75 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°F to 125°F (0°C 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)

# REPLACEMENT PARTS

- TIF8801: Combustible Gas Sensor
- TIF8803A: 115V Battery Charger
- TIF8805: 12V cigarette lighter recharger
- TIF8806A: Rechargable Ni-Cad Battery pack
- ATP-7038: Carrying case
- 527690RED: Battery cover

# SPAÑO

# WARRANTY AND REPAIR



#### 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 easily be solved.

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

## **ESPAÑOL**

# DETECTOR DE GAS COMBUSTIBLE MANUAL DEL PROPIETARIO

TIF8900

# DESCRIPCIÓN GENERAL



La serie TIF8900 está constituida por detector de gas combustible electrónico de estado sólido, de banda ancha y alimentado por batería.

El instrumento emite una señal de «contador geiger» que aumenta su frecuencia a medida que se acerca a la fuente de gas combustible o vapor. Son excelentes para indicar la ubicación de fugas de gases combustibles tan dimininutas como 5 ppm (partes por millón). Estas unidades incluyen una maleta para transportarlas, manual del propietario, baterías recargables y un cargador.

La unidad es ideal para localizar fugas conocidas, comprobar la existencia de fugas y verificar la seguridad de los lugares potencialmente peligrosos.

#### ATENCION:

Las baterías se deben cargar durante 24 horas antes de usarlas por primera vez. Si no se hace esto, la unidad no funcionará en forma apropiada.

#### ¡ADVERTENCIA!

Se dañarán las baterías y la unidad si estas se colocan al revés.