



TIF ZX-1

Design Certified by MET Laboratories, Inc. to meet SAE J1627 for R134a, R12 and R22



### Heated Pentode™ Refrigerant Leak Detector

- Sensor technology: Heated Pentode™ refrigerants, including R65410A. True Mechanical Pump provides instant response and clearing.
- Elimination of false alarms Unaffected by rapid temperature change.
- Sensor cannot be "poisoned" by excessive refrigerant.
- Detects ALL Halogenated refrigerants, including R65410A.
- True Mechanical Pump provides instant response and clearing.
- Tilt-color visual leak size indication.
- Tactile keypad controls.
- Adjustable sensitivity and one touch reset.
- Mute feature silences audible alarm.
- Sensor status indication.
- Battery self test.
- 16" Flexible Stainless Probe.
- Ballistic Nylon Carrying Case and Battery Charger included.
- Certified to SAE J1627.
- CE approved.
- 25 year warranty.

International Versions	Model No.
European – 230V, 50 Hz Charger	TIFZX-1E
Japan – 100V, 50/60 Hz Charger	TIFZX-1J
Australia – 230V, 50 Hz Charger	TIFZX-1A

Replacement Parts (supplied with product)	Part No.
Replacement Heated Pentode™ Sensor	TIFZX-2
110V-60 Hz Battery Charger	TIFZX-3
Ballistic Nylon Carrying Case	TIFZX-5
Maintenance kit: Filter, Probe tip & O-ring	TIFZX-14
Filter Elements (5 pack)	TIFZX-15
Flexible Probe (includes Probe Tip)	TIFZX-10

Optional Accessories	Part No.
230V, 50 Hz Battery Charger (International)	TIFZX-3E
100V, 50/60 Hz Battery Charger (Japan)	TIFZX-3J
230V, 50 Hz Battery Charger (Australia)	TIFZX-3A
Remote Battery Charging Base	TIFZX-6
Nickel-Metal Hydride (NiMH) Battery Pack	TIFZX-7
12VDC Battery Charger (cigarette lighter style)	TIFZX-11
Hard Carrying Case	TIFZX-12

#### Specifications

<b>Ultimate Sensitivity</b>	0.1 oz/yr (3 gr/yr) for all refrigerants, as low as 0.05 oz/yr (1.5 gr/yr) for R12
<b>Power Supply (Standard)</b>	4.8V Nickel-Cadmium Rechargeable Battery Pack
<b>Power Supply (Optional)</b>	Nickel-Metal Hydride, (NiMH) Rechargeable Battery Pack
<b>Battery Life</b>	NiMH: (5 to 6 hours)
<b>Sensor Life</b>	100 hours
<b>Operating Temp.</b>	32° to 122° F (0° to 50° C)



TIF ZX-1KIT

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### Heated Pentode™ Refrigerant Leak Detector Kit

- TIFZX-1 Leak Detector, complete in Hard Carrying Case, with all Accessories.
- Case includes individual compartments for each item.
- Kit includes:
  - Two (2) replacement sensors.
  - Spare filter Elements (pkg. of 5).
  - Nickel Cadmium Rechargeable Battery Pack
  - Nickel-Metal Hydride Battery Pack.
  - Remote Battery Charging Base.
  - 110V, 60 HZ – Battery Charger.
  - 12VDC Battery Charger.
- 25 year warranty on the TIF ZX-1 (See TIFZX-1 for specific features and specifications).

International Versions	Model No.
European – 230V, 50 Hz Charger	TIFZX-1KIT
Japan – 100V, 50/60 Hz Charger	TIFZX-1J

Optional Accessories & Replacement Parts
Listed under TIFZX-1 Heated Pentode™ Refrigerant Leak Detector



### Electronic Refrigerant Leak Detector

- Proven Corona Discharge technology.
- Detects all CFC, HCFC and HFC Refrigerants.
- Easy – One Hand operation.
- Audible and visual leak indicators.
- Adjustable Sensitivity Control – Infinite control in contaminated areas.
- Adjustable Volume Control.
- 16" Flexible Probe.
- Includes spare Sensing Tip.
- UL Design Certified to SAE J1627.
- One year warranty.

Specifications	
<b>Ultimate Sensitivity</b>	Less than 0.5 oz. per year (14 gr/yr)
<b>Power Supply</b>	Four "AA" Alkaline Batteries (Included)
<b>Operating Temp.</b>	32° to 105° F (0° to 40° C)

Replacement Parts (supplied with product)	Part Number
Sensing Tip	16S103

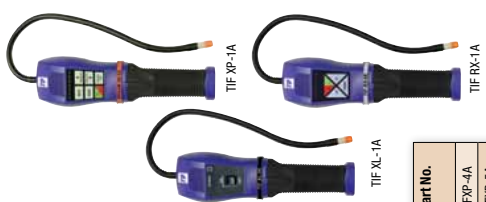


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### Refrigerant Leak Detectors

- Microprocessor controlled circuit with Advanced Digital Signal Processing, monitors the sensing tip up to 2000 times per-second.
- Detects all Halogenated refrigerants.
- Variable frequency audible alarm.
- 14" Flexible stainless steel probe with Teflon™ liner.
- Rubber cushion grip.
- Constant Power Indication.
- Power Supply: 3VDC, two "C" cell alkaline batteries (included).
- Sensing Tip Life: approx. 20 hours (two tips included).
- Operating Temp. 30° to 125° F (0° to 52° C).
- Blow Molded Carrying Case included, optional holster.
- Certified to SAE J1627.
- UL Classified & CE approved.
- See chart for warranty information.

Specifications	TIF XL-1A	TIF RX-1A	TIF XP-1A
<b>Ultimate Sensitivity</b>	< 0.4 oz. per year (11 gr/yr)	< 0.25 oz. per year (7 gr/yr)	< 0.1 oz. per year (3 gr/yr)
<b>True Mechanical Pump</b>	n/a	Yes	Yes
<b>Visual Leak Indication Levels</b>	n/a	6 (single color)	18 (tri-color)
<b>Sensitivity Levels</b>	1	2	7
<b>One Touch Reset and Keypad Controls</b>	n/a	Yes	Yes
<b>Mute Button</b>	n/a	n/a	Yes
<b>Battery Test</b>	n/a	n/a	True voltage indication
<b>Battery Life</b>	Approx. 40 hrs.	Approx. 30 hrs.	Approx. 30 hrs.
<b>Warranty</b>	2 Years	2 Years	3 Years



TIF XL-1A

TIF RX-1A

Optional Accessories	Part No.	Replacement Parts (supplied with product)	Part No.
Maintenance Kit (3 tips w/ protectors)	TIFXP-2	Blow Molded Carrying Case	TIFXP-4A
		Battery Cover	TIFXP-5A

### "Super Scanner™" Refrigerant Leak Detector

- LED Leak Size Indicators.
- Two Sensitivity positions, including our unique ScanMode.
- Reset Button for instant re-calibration.
- Detachable probe.
- High efficiency pump.
- Certified to SAE J1627.
- Detects ALL Halogenated Refrigerants.
- UL Classified for Intrinsic Safety.
- Constant Power Indication.
- Carrying case and spare sensing tip included.
- One year warranty.



TIF5750A



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Optional Accessory	Part No.
Maintenance Kit (3 tips, 3 protectors)	TIF555

#### Specifications

<b>Ultimate Sensitivity for R12</b>	Less than 0.1 ounces per year (3 gr/yr).
<b>Power Supply</b>	(Two) 1.5V "C" Batteries
<b>Battery Life</b>	30 Hours (Alkaline)
<b>Probe/Cord Length</b>	Probe = 14" (35cm) Cord = 36" (91.4cm)
<b>Operating Temperature</b>	32°–125°F (0°–52°C)