

# Refrigerant Leak Detector

## 753a



**The Value Leader™**

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## Specifications

Power Supply:	2 "C" Alkaline Batteries
Sensor:	Conductive Polymer Ionization (CPI)
Sensitivity:	Selectable to 0.1 oz/yr 134a
Warm up:	Approx 7 seconds
Response time:	Instantaneous
Duty Cycle:	Continuous
Battery Life:	Approx. 30 hrs.
Size:	3.0" x 9.5" x 2.28" (77 x 240 x 58) mm
Weight:	1.1 lbs (500g)
Probe Length:	16"

## Accessories

### Standard Accessories:

Sensor:	A721
Instruction Manual:	753a Instruction Manual
Soft Case w/Strap	A755

### Optional Accessories:

Earphone	A710
Test vial	A713

## General Description

The TPI 753a is a state-of-the-art refrigerant leak detector capable of detecting all halogen based gases. The internal diaphragm pump and unique sensor design provide fast and reliable gas sensing. Selectable sensitivity combined with audible and visual leak indicators will allow any service professional to pinpoint those tough to find leaks even in contaminated environments.

## Operating Instructions:

1. Turn the unit on in an uncontaminated environment pressing the ON/OFF button. Both the pump and the tick will start.
2. All LED's will illuminate ORANGE indicating auto-

matic zeroing at start up. The GREEN ready light will then illuminate if there is ample battery power. If the GREEN light flashes RED it is necessary to change the batteries.

3. Approach suspected leak areas with the sensor until the tick begins to increase. When the tick increases and the LED's illuminate showing only ORANGE in color, do not remove the sensor from the area, simply press the RESET button and wait approximately 2 seconds for a stable tick and begin searching again for the tick to increase indicating you are getting closer the leak.

The LED's will illuminate from GREEN to ORANGE indicating up to 14 levels of leakage. When all ORANGE LED's appear the leakage is at its maximum level. The RESET button must be pressed again.

4. To find very small leaks use the same procedure as listed in paragraph 4, but use the "Sen HI" mode. When this is selected all 7 RED LED's will illuminate momentarily and the tick will be faster prior to the GREEN ready light being illuminated.
5. To reduce sensitivity press the "Sen LO" button. When this is selected 4 RED LED's will illuminate prior to the GREEN ready light being illuminated.
6. If the left GREEN LED flashes between GREEN and

- RED, change the batteries.
7. If the GREEN LED fails to illuminate or begins to flash, change the batteries. The "BAT. Check" can be pressed to indicate relative battery strength. When all LED's illuminate GREEN, the batteries are at full strength.
  8. A mute button disables the alarm sound that indicates gas concentrations in excess of 0.5 oz/yr of R-22 (or equivalent).
  9. An earphone can be plugged into the earphone jack when using the instrument in noisy environments.
  10. If the tick is erratic, check the sensor for tightness and cleanliness. Cleaning the sensor with alcohol is permitted as long as the instrument is turned off.
  11. If the instrument does not perform, replace the sensor. Sensor replacement is recommended annually.
  12. To turn off press and release the ON/OFF button.

## **Battery replacement**

1. Remove the battery compartment door from the bottom of the handle by sliding the door away from the front side of the instrument.
2. Remove the batteries and replace by sliding the negative (-) end of the batteries in first.
3. Replace the battery door by sliding the door into



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753a Instruction Manual

Test Products International, Inc.  
9615 SW Allen Blvd  
Beaverton, OR 97005-4814 USA