

LeakTector

Portable Ultrasound Leak Detector

LT-3

DESCRIPTION

LeakTector is a portable gas or steam leak detector, designed for periodical survey of steam traps and valves. It detects abnormal vibrations on rotary machines, as well.

When a gas or steam leak is produced through an orifice, or through a valve, the high speed of the gas or steam generates a sound of high frequency (ultrasound), which is not audible by the human ear. This ultrasound is captured and analyzed by the LeakTector microprocessor and finally shown its result on the LCD display.

The system is integrated by two components: probe and analyzer.

A novelty of LeakTector is its special verification function of thermodynamic steam traps, allowing the evaluation of the low energetic efficiency states (cycle too short) of this type of steam traps.

OPERATION

The device operation is extremely easy. It includes only one multifunction button and a turn of/off switch. The multifunction button allows selecting the sensitivity of the analyzer, which can be selected among six different ranges:

1. LP: (High sensitivity, for low pressure >15 psig and < 50 psig).
2. MP: (Medium sensitivity, for median pressure >50 psig and < 250 psig).
3. HP: (Low sensitivity, for high pressure > 250 psig).
4. TD Specific function for Thermodynamic steam traps.

INCLUDED ACCESSORIES

- Transport pocket.
- TrapHelp (steam trap survey software (limited to 500 records).

APPLICATIONS

- Steam trap survey.
- Gas and steam leaks detection.
- Vibration detection in rotary machines.

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Technical modifications can be introduced without any advise.



TECHNICAL CHARACTERISTICS

Body: High impact polystyrene. Black color.
Frequency: 40 KHz +/- 1 KHz
Bandwidth (-6dB): 2 KHz
Sensitivity: -80dB/V/μbar
Protection: IP54.
Max. Temperature: -30°C + 80 °C.
Display: Backlight LCD 12 x 2 lines.
Dimensions: 3.5 x 3 x 1.5 inches.
Weight: 0.6 lbs.

OPTIONAL ACCESORIES

1. Battery charger (only when LT-3 is supplied with rechargeable battery)
2. Interchangeable directional probe.
Directional probe is used for gas leak detection at distance of 5 to 10 mt. without touching the source of leakage. Unaccessible gas leak is detected by pointing the directional probe to the leakage source. Size of directional probe is similar to size of the contact probe.

BATTERIES

The LT-3 can be delivered with two diferent types of batteries:

1. Rechargeable Li-HM battery:
1 x 9 VCC (PP3/6LF22, 9V/260 mAh).
Continuous live: 87 hours (backlight off).
2. Non rechargeable Alkaline battery:
1 x 9 VCC (PP3/6F22, 9V, 550mAh)
Continuous live: 183 hours (backlight off).

It is strongly suggested the option of recahrnable battery plus charger to avoid remove cover of LT-3.

In view of technical progress designs and dimensions are subject to change without notice.



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