

Ultrasonic Leak Detector

Portable / Handheld Model : UL - 100



Protects **Personnel, Plant
& Assets**



Top, back and front view of UL-100

ULTRASONIC LEAK DETECTOR DESIGNED FOR USE IN AREAS OF LOW TO MODERATE BACKGROUND NOISE LIKE R & D / Q.C. LABORATORIES, HOSPITALS, ENGINEERING COLLEGES, COMMERCIAL ESTABLISHMENTS, REPAIR SHOPS, ETC.

TECHNOLOGY

The UL 100 is an economical, handheld detector that offers high sensitivity and great sound quality in a compact package. It represents the state of the art in ultrasonic technology for leak detection and preventive maintenance. It is extremely sensitive to the ultrasonic sound of turbulence and friction that is associated with costly equipment faults. Using a technique called 'heterodyning', the UL-100 translates the otherwise inaudible ultrasound to a lower frequency where it can be heard through a set of headphones as well as identified on a display. It delivers a clear ultrasonic sound reproduction making it possible to distinguish leaks.

This is a very versatile leak detector. The UL-100 is sensitive only to a specific band of ultrasound, and is not chemical dependant. It can detect any gas (refrigerants, CNG, compressed air, nitrogen, vacuum and more) and doesn't false alarm from stray gases. It is not affected by wind, sunlight or sudden temperature changes and does not require sensor replacement or calibration.

SPECIAL FEATURES

- Handy & light weight
- Low cost, light industrial laboratory applications
- Alphanumeric LCD display
- Frequency range from 40 KHz
- Inbuilt heterodyne sensor
- Headphone with optional spectrum analysis software

APPLICATIONS

- Locates leaks in compressed air, gases and vacuum systems.
- Finds the source of bearing and gear wear.
- Locates arcing in an electrical system.
- Detects refrigeration and air conditioning system leaks.
- Locates leaks in breaks systems, tubes, radiators & tires, senses cracks in moving rubber V-belts.
- Check condition of engine seals, door seals.

HNL Systems Pvt. Ltd.

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* Images for representational purpose only

SPECIFICATIONS

Type	Portable
Detectable gases / parameters	Frequency (20 KHz to 100 KHz)
Electronics / processor	Micro-controller
Power supply	Rechargeable battery with charger
Display	Alphanumeric LCD
Technology	Ultrasonic Frequency Detector
Principle	Heterodyne
Frequency	40 KHz (± 2.5 Hz)
Accuracy	± 2 KHz
Response time	Instantaneous
Operating temperature	0 - 55 °C
Sampling / input	Diffusion
Housing / case	High impact ABS plastic
Included accessories	Headphone
Optional accessories	Spectrum analysis software
Probe	Airborne for external sound, touch probe for internal sound
Sensitivity	65 Db/ubar at 40 KHz
Band Width	± 2 KHz
Headset	Dynamic 32 ohm
Weight	175 grams
Dimensions	(H x L x D)119 x 80 x 25 mm

Note : Specifications and Features will vary with application. There may be changes overtime due to continuous development process.
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