

ULTRASONIC LEAK DETECTOR

DETECTS LEAKS AND MECHANICAL MALFUNCTIONING, SUITABLE FOR PREDICTIVE MAINTENANCE, ENERGY SAVINGS, LEAK DETECTION, STEAM TRAP ASSESSMENT, CRITICAL VALVE DIAGNOSTICS, ELECTRICAL ARCING, CORONA DISCHARGE



USL - 100

ULTRASONIC AIR / GAS LEAK DETECTOR

The USL - 100 is an early warning system for detecting facility defects at a very early stage before the damage occurs. This USL Series are designed for the rapid, reliable and cost effective detection of seal failures and minute leaks within compressed air systems and networks, vacuum systems, industrial equipment and machinery.

Predictive & systematic repairs can avoid expensive disturbances and unscheduled downtime. Identifying the exact location of a defect, entails a quick reaction time to prevent major damages. With USL-100 it is possible to locate precisely the defects and estimate their magnitude. Its fast and easy operation can save time, material, energy and condensate losses with a regular checking of fittings, valves and gates, steam trap, ball bearings, and leads to increased operational reliability and guarantees a higher degree of availability of machinery. Ultrasound sound is generated due to friction caused by the flow of gases, liquids and solids in pipes and leakages. This ultrasonic frequency range can be detected over longer distances with the parabolic probes. Periodic removals of Leaks in compressed air systems reduce the energy costs by up to 30%. These signals are processed by the USL-100 and their intensity is displayed on the display screen as well as made audible through speakers or headphones.

SPECIAL FEATURES

- Handy, Light weight & economically priced
- Dual frequency band for critical industrial applications in noisy environments
- Digital display
- Tuned for frequency range of 40 KHz for better pickup of leak detection
- Inbuilt heterodyne sensor
- Headphone, carry case 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



*Images for representational purpose only

SPECIFICATIONS

Type	: Portable
Detectable gases / parameters	: Frequency (20 kHz to 100 kHz)
Electronics / processor	: Micro-controller
Power supply	: Internal rechargeable battery with charger
Display	: Graphic LCD
Technology	: Ultrasonic Frequency Detector
Principle	: Heterodyne
Frequency	: 20 kHz - 100 kHz
Accuracy	: ± 2 kHz
Response time	: instantaneous
Operating temperature	: 0 - 55 °C
Sampling / input	: Diffusion
Housing / case	: High impact ABS plastic
Included accessories	: Carry case, 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)166 x 88 x 32 mm

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