

ULTRASONIC LEAK DETECTOR

SUITABLE FOR PREDICTIVE MAINTENANCE, ENERGY SAVINGS, INTEGRITY TESTING, STEAM TRAP ASSESSMENT, CRITICAL VALVE DIAGNOSTICS, ELECTRICAL ARCING, CORONA DISCHARGE, COMPRESSED GAS LEAK DETECTION IN HIGH BACKGROUND NOISE



USL - 200

ULTRASONIC AIR / GAS LEAK DETECTOR

USL-200 is compact, handheld device and it comes with a flexible wave guide for inaccessible areas. Unique acoustic design of precision probe maximizes sensitivity for contact applications, such as bearing and valve analysis. If air / gases escape through leaks, ultrasonic noises are generated. By means of the dual frequency band USL-200 detector, leakages can be detected in the ultrasonic range in noisy environments.

USL-200 works by detecting and converting the high frequency sound associated with turbulence, friction and arcing in industrial and commercial systems down to the audible range, where they can be heard in the headset and viewed on the meter. Translation is done by HETRODYNING - comparing the incoming signal with one generated signal by the meter. USL-200 is most sensitive to sounds around 40KHz, that's twice the frequency of the best human hearing. Because USL-200 is focused on a specific band of sound, most normal operational sound like wind, noise, voices, traffic, etc will NOT be detected. The regular inspection of leaks in compressed air, gases, vacuum systems, critical valve diagnostics using the USL-200 leads to increased operational reliability and guarantees a higher degree of availability of machinery. USL-200 is designed for use in area of moderate to high background noise such as plant, institutional environment etc. Other models are also available for high and very high background noise. For eg. VPX-WR is used for very high background noise such as textile industries.

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 / handheld
Detectable gases / parameters	: Frequency
Electronics / processor	: Micro-controller
Power supply	: Rechargeable battery with charger
Display	: Graphic LCD
Technology	: Ultrasonic Frequency Detector
Principle	: Heterodyne
Frequency	: 30 KHz, 40 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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