

TAURUSTM

ULTRA SOUND

PDD 100A

Air Audit Kit



The PDD 100A is a hand held Non Destructive inspection system which picked Ultrasound for predictive maintenance. The PDD 100A, Receiver, is the primary component in the system, detects and converts ultrasound into easily recognizable sounds with in the human range of hearing and supplies output to a headset as well as to an analog meter. This could be used for various applications in different industries like Aviation, Power Generations, Oil & Gas, General Manufacturing, Government & Military etc...

Description

The PDD 100A continues TAURUS's history of taking the lead in pushing state of art technologies to new levels. The PDD-100A converts ultrasound signals produced by industrial machinery and vehicles into easily recognizable audible sounds so the user can evaluate the condition of individual components, even in extremely noisy plant environments. PDD-100A is used for predictive maintenance, quality control and for leak detection. Enhanced ultrasound detection is provided to the PDD 100A by combining the features of the already proven Ultra sound sensing technology with extended range and sensing capabilities.



Advantages of Ultra Sound Testing

Implementation of this technology provides new possibilities for early, quick, and inexpensive testing methods that indicate potentially dangerous defects at initial stages of their occurrence and development. This Technology significantly surpasses other modern technologies at less costs for a wider range of benefits. Compressed gas and vacuum systems, steam, HV AC, pneumatic systems and a multitude of other applications utilize this for leak detection. The unique features such as its sensitivity, signal-to-noise ratio, and ease of use are unsurpassed by any other ultrasonic detector on the market today.



Reasons to consider PDD 100A Ultra Sound Sensing

- **Designed for a wide range of applications**
- **The beam of reception** : is decreased to 1 degree center for better accuracy at the longer distances.
- Pinpoints leaks at heights : Many organizations have instituted routine leak detection programs for energy savings. If you have installations that are more than 40 feet high, you could use the PDD 100A to locate the leaks within a few inches without climbing ladders or using lifts.
- **Best Signal Sensitivity Available** : As certified by NASA
- **Optional Instant** : Ultrasound Data capture and Analysis.
- **Certified for testing high voltage** : The PDD 100A is gaining widespread approval throughout the world. For example, a Certified R&D Institute certified the functional aspects of the PDD 100A for detection of corona discharge from 400 kV and 250 kV single suspension insulator strings. Can also detect internal & external arcing.
- Multiple Applications : The PDD 100A comes with range of accessories, Concentrator set, Solid Probe set, Acoustic probe set Metal Probes to suite variety of applications say Oil & Gas, Industrial, Power, Railway, Power plants, Aviation, Medical etc...

Specifications & Dimensions

- Receiver: 222 x 32 x 32 mm
- Weight : Receiver: 330 g
- Transmitter : 175 g
- Housing : Extruded Aluminum
- Power Supply : Two (2) Standard AAA Alkaline Batteries (for laser)
- Battery Life : Receiver: > 45 hours
- Transmitter : > 300 hours
- Sensitivity : Minimum Intensity 10-12w/m², Minimum ultrasonic pressure 2.0x10⁻⁵ Pa @40 kHz
- Distance of Reception : Up to 50 Meters without Parabolic Dish
- Frequency Bandwidth : 1.8 – 2.2 kHz @ level 0.7 (or -3 dB)
- Working Resonance Frequency : 40 kHz +/- 1.5 kHz
- Operating Temperature Range : -20° to +54° C
- Receiver Displays: Analog Meter/Battery Level Indicator
- LED Power Indicator
- Controls: Laser Trigger On / Off Switch
- Warranty : 1-year parts & labor Extended warranty available

Applications

- Detect Gas & Vacuum Leaks
- Detect Electrical Arcing & Corona
- HT Panel and Switchgear inspection for corona, arching

Energy Savings

Reduce your compressor usage by 20% - 30%.

HVAC

Ultrasound is not affected by wind.

Expensive Gas (Any Type)

Finding one Nitrogen leak has immediate ROI.

Steam Leaks / Steam Traps

Improve steam system efficiency and save money

Get instant feedback (Optional Software)

- View ultrasound waveform from plant floor
- Calculates root mean square
- Provides event indication
- Audio/visual playback

Spares & Accessories



Features

- Detects Leaks Up To 150 Feet (50 m)
- Pinpoints To Exact Location
- More Sensitive Than Any Other Ultrasonic Leak Detector
- Best Signal-To-Noise Ratio
- Easy To Use



Innovative Technologies

An ISO 9001 : 2008 Company

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