



## Superior AccuTrak® VPE 1000 Ultrasonic Leak Detection

### Superior AccuTrak® VPE 1000 State-of-the-Art Patented Technology for Leak Detection and Plant Maintenance

With separate ultra-sensitive sensors for Airborne Ultrasound and Contact Ultrasound, the **AccuTrak® VPE-1000** is a versatile tool that every maintenance mechanic should have. **AccuTrak®** is extremely sensitive to the ultrasonic sound of turbulent gas leaks and mechanical friction. Using a technology called “heterodyning” it translates the sound to a lower frequency which your ear can interpret. **AccuTrak®** maintains the original sound characteristics making it possible to distinguish leaks from other competing background sounds. **AccuTrak®** is so sensitive you can actually hear the blink of an eye, yet most background noise will not interfere with detection accuracy.

#### Applications:

The **AccuTrak® VPE-1000** is perfect for factories, warehouses, schools, hospitals, hotels, and other large institutional or industrial environments. Use for a variety of leak detection and plant maintenance applications.

- Leak Detection: Air, Vacuum, Refrigerants; ANY GAS!
- Steam Traps: Detect live steam loss in seconds!
- Valves: Detect/hear internal leakage in check, ball, needle, gate or any type of valve! Diagnose thermal expansion valves in just five minutes!
- Bearings: Hear wear and lubrication problems before damage is done!
- Electric Arc and Corona: Inspect circuit breakers, relays, and buss bars! Check for corrosion on contacts and proper insulation!
- Pneumatics and Hydraulics: Inspect controls, hoses, tools, fittings and internal cylinders with ease!
- Vibration: Detect the ultrasonic sound generated by excessive friction!
- Fan Belts: Detect improper tension, missalignment and excessive wear before failure!



#### Capabilities:

- Works equally well for compressed Air or Nitrogen.
- Not affected by wind or high concentrations of leaked gas or refrigerant.
- Easily detects any gas that generates ultrasonic sound during flow including vacuum leaks.
- Capable of detecting leaks equivalent to 1.5 oz/year of Refrigerant.
- Able to detect a 5 psi leak through a 0.005” (5/1000 inch) hole, from a 20-30 foot distance depending on background noise.

## Features of the **AccuTrak**® VPE 1000:

- Digital LED Indicators: Both alphanumeric and bar-graph!
- Digital Peak Hold: Holds highest level for easy readability!
- Separate Volume/Sensitivity: Independent controls allow you to “zoom” into sounds in noisy areas!
- Dual Sensors: Each with excellent frequency response, and independent settings

## AccuTrak® VPE 1000 Specifications

### Electrical:

Airborne Sensor Sensitivity: -80db/V-μbar  
 Detection Performance: 5mil ID @ 5PSI From 50'  
 (Conditions): (60db Ambient Sound Level-No In-band Sound)  
 Ultrasound Converter types: Digitally Controlled Heterodyne  
 Frequency response, AirBorne: 34kHz-42kHz  
 Frequency response, Touch Probe: 16kHz-24kHz  
 Heterodyne Oscillator: Digital  
 Heterodyne Filter: 4kHz  
 Controls: 4 Buttons  
 Digital Sensitivity Control: 256 Steps  
 Digital Volume Control: 256 Steps AUDIO ZOOM  
 Output, Audio: 0Hz to 4kHz  
 Output, Visual: 20 Element Bar Graph with PEAK-Hold and Separate Alphanumeric Digital Display allowing simultaneous readings and comparisons.  
 Signal Output: Heterodyne  
 ON Indicator: Digital Display  
 Low Battery Indicator: Digital Display, BATT  
 Insufficient Battery Charge: Automatic Shut-Down  
 Battery Type: Std. 9 Volt Alkaline  
 Run Time: 55-80 hrs

## **AccuTrak**® Burst Tone Sound Generator - an Essential Accessory



The **AccuTrak**® Sound Generator when used together with **AccuTrak**® VPE 1000 forms a non-invasive leak detection system capable of finding leaks in enclosures, including refrigerator/ freezer door gaskets, truck or auto window seals, trunk gaskets, aircraft cabins, various tanks, vessels, or any other container that needs to be leak-free.

The **AccuTrak**® Sound Generator is used to “pressurize” rooms and enclosures with it’s sound. This sound is above the human hearing range, and cannot be heard. It can penetrate through minute cracks, even ones that are not directly behind the leak point, and exit through it. The VPE 1000 can trace the path air, or water, will take to cause a leak. The **AccuTrak**® VPE 1000 receives the ultrasonic sound that escapes from the leak point, processes it and displays it’s strength. The bigger the leak is, the higher the volume in the headset. Burst Mode: If the background noise is extremely loud in a particular area, using Burst Tone will make the output of the sound generator much easier to identify.

## Standard VPE 1000 Kit



Model VPE1000 Detector, Industrial Grade Noise Cancelling Head Set, Stainless Steel Touch Probe, Wave Guide, Large Hard Carrying Case with custom foam inserts, Alkaline Battery, Instructional CD, User’s Manual

### Mechanical:

Dimensions: (LWD)7.075” (17.97cm) X 2.4” (61mm) X .875” (22.22mm)  
 Overall Length: 8.185” (20.78cm)  
 Body Materials: Aluminum and ABS  
 Body Finish: Anodized, Gold (MIL-A-8625 Type3 Class2), Black ABS  
 Connector: 3.5mm Stereo  
 Top Label: Velvet Lexan, Back Printed  
 Weight: 0.5lb (233gr) Includes Battery