



AccuTrak[®]
Ultrasonic Leak Detectors

ClenAir AccuTrak[®] VPE Featuring 3rd Generation Ultrasonic Technology to Find and Locate Leaks

ClenAir by Nu-Calgon is proud to announce the latest version of our most popular ultrasonic instrument, the 3rd Generation AccuTrak[®] VPE. Featuring ALL-NEW internal circuitry, the patented AccuTrak[®] VPE stands out above all other Ultrasonic Instruments in its class. With even greater sensitivity and a number of new features unique to the VPE, no competitive ultrasonic instruments even come close.

AccuTrak[®] is extremely sensitive to the ultrasonic sound of a turbulent gas leak. Using a technology called “heterodyning” the instrument translates ultrasound to a lower frequency which can be heard.

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.

The New 3rd Generation AccuTrak[®] VPE offers the following improvements:

1. **20% Greater Sensitivity** – our all-new 3rd Generation digital circuitry is clearer and quieter, allowing you to detect smaller leaks and faults than ever before. The VPE already had the best sensitivity in the industry – and now it’s even better.
2. **Peak Hold Display** – the new Peak Hold function on the display allows you to find leaks and faults faster and better, so you get the job done quicker and easier. This great feature can be found on instruments costing several times more – but it is unique for this class of instrument.
3. **Over Range Audio Alarm** – this unique new feature allows you to keep your eyes on what you are measuring rather than on your instrument display, and still know that you have exceeded the range setting and need to adjust the sensitivity for optimum performance. This gets the job done quicker, easier, and safer.
4. **Improved Battery Life** – up to 200 hours of operation on a standard single 9-Volt Alkaline battery – about twice as much as before!
5. **Smart Battery Management** – low battery notification via audio and visual signals, auto shutdown for low battery prior to reduction in performance, abort power-up on weak or defective battery. Audio visual signals on power-up confirm battery in good condition.
6. **More Rugged Design** – internal components have been redesigned to make the instrument more shock resistant, resulting in an even more reliable instrument.
7. **Smart Button Control** – one button controls all functions, with audio and visual signals to indicate function selection and status. Simple operation with greater functionality!

Applications:

- Leak Detection: Air, Vacuum, Refrigerants, ANY GAS!
- Diagnose thermal expansion valves in just five minutes!
- Valves: Detect/ Hear internal leakage in any type of valve!
- Bearing Wear: Hear wear & lubrication problems before damage is done!
- Steam Traps: Detect live steam loss in seconds!

Capabilities:

- Works equally well for compressed Air or Nitrogen.
- Not affected by wind or high concentrations of leaked gas or refrigerant.
- 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.
- Easily detects any gas that generates ultrasonic sound during flow including vacuum leaks.



VPE Is Offered In A Variety Of Kits To Meet The Needs Of Any Professional!

Features of the AccuTrak® VPE:

- Audio Output: 0 Hz to 4 kHz Natural Sound conversion allows you to Hear the Leak, and distinguish leaks from mechanical or other background ultrasound.
- Visual Output: 10 element bar graph provides quick and intuitive visual indication to presence of and relative strength of ultrasound.
- Adjustable Sensitivity: allows operator to quickly identify leaks from a distance and then zero in on the exact location of the leak.

AccuTrak® VPE Specifications

Mechanical:

Dimensions:	(LWD) 4.15" (10.5cm) X 2.4" (61mm) X .875" (22.2mm)
Overall Length:	5.5" (14cm)
Body Materials:	ABS
Body Finish:	Blue ABS
Connector:	3.5mm Stereo
Top Label:	Velvet Lexan, Back Printed
Weight:	0.3lb (138gr) Includes Battery

Electrical:

Airborne Sensor Sensitivity:	-80db/V-µbar
Detection Performance:	1.5oz/yr Refrigerant
Ultrasound Converter type:	Heterodyne
Airborn Frequency response:	36kHz-42kHz
Heterodyne Oscillator:	Analog
Heterodyne Filter:	4kHz
Controls:	1 Button
Sensitivity Control:	Continually Variable Slide
Output, Audio:	0Hz to 4kHz
Output, Visual:	10 Element Bar Graph
Battery Type:	Std. 9 Volt Alkaline
Run Time:	Up to 200 hours

AccuTrak® Burst Tone Sound Generator - An Essential Accessory

The **AccuTrak®** Sound Generator when used together with AccuTrak VPE forms a noninvasive 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 can trace the path air, or water, will take to cause a leak. The AccuTrak® VPE receives the ultrasonic sound that escapes from the leak point, processes it and displays its 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.

AccuTrak® Sound Generator Specifications:

Frequency Control - Precision Crystal Oscillator
 Frequency Accuracy + /- 50 parts per million
 Output Intensity - 115 db at 30cm. (nominal)
 Battery Type - Std. 9 Volt Alkaline

Output Frequency - 40 kHz (+/- 2.5 Hz)
 Precision Voltage Regulator - 1% Regulation
 Dual Mode Output - Continuous or Burst Tone
 Battery Life (approx.) - 70 hrs. Continuous, 90 hrs. Burst



VPE Pro-Plus Kit Includes:

Model VPE Detector, Industrial Grade Noise Cancelling Head Set, Burst Tone Ultrasonic Sound Generator, Stainless Steel Contact Probe, Flexible Wave Guide, NEW Canvas Belt Pack, Hard Carrying Case with foam inserts, Alkaline Battery, User's Manual