



*"Your One Stop Shop for Condition Monitoring"*

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## AccuTrak® VPE 1000 Ultrasonic Inspection System

The AccuTrack VPE-1000 is extremely sensitive to the ultrasonic *sound* of leaks and friction in industrial systems. By using a technique called "heterodyning" it *translates* the ultrasound to a lower frequency which our ears can interpret. The VPE-1000 is so sensitive it can hear the blink of an eye, yet most background noise will not interfere with detection accuracy. Patented technology uses a microcomputer and digital circuitry making AccuTrak the most accurate and repeatable ultrasonic inspection instrument available in its class.

The VPE-1000 is perfect for schools, hospitals, hotels, and other large institutional environments. Use for a variety of leak detection and plant maintenance applications such as Steam Trap Testing, Any Gas Leak Detection, Bearing Wear and Valve Testing.



**VPE 1000 Kit**  
field case not pictured

### Features:

- Advanced, digitally controlled unit!
- Dedicated touchprobe sensor for optimum sensitivity and sound quality.
- Two LED displays with peak hold.
- Separate volume and sensitivity settings.
- Wide dynamic range increases effectiveness in loud areas.

Kit includes: Detector unit, touchprobe & waveguide attachments, over the ear headset, battery, instruction video and owner's manual, and hard shell padded carry case



The SG2 Sound Generator emits powerful ultrasonic sound waves which will penetrate small holes and cracks, following the path a gas or liquid would take to cause a leak. The escaping ultrasound is then received and measured by the VPE 1000 detector.

Use in conjunction with the VPE1000 detector to test refrigerator/freezer door gaskets, truck/auto/boat window seals, trunk gaskets, aircraft cabins and various other tanks/vessels and more.

The SG2 may be used in continuous or burst mode at 49 kHz up to 115 dB at 30 cm. This highly recommended accessory provides tones for trouble shooting pressure vessels and air tight applications.

### VPE 1000 Specifications:

Power:	9volt
Battery Life:	8 hrs. continuous
Displays:	10 element LED bar-graph, and 4 element alphanumeric.
Frequency Response:	30-42 kHz Airborne, 18-22 kHz Probe (center)
Audio Output:	0 to 4 kHz
Sensitivity:	-80dB/volt/microbar
Warranty:	One year

### SG2 Specifications:

Power:	9volt
Battery Life:	70 hrs. continuous, 90 hrs. Burst
Output Frequency;	40 KHz ( $\pm$ 2.5 Hz)
Frequency Accuracy:	$\pm$ 50 parts per million
Precision Voltage Regulator:	1% Regulation
Output Intensity:	115 dB at 30 cm. (nominal)
Dual Mode Output:	Continuous or Burst Tone
Warranty:	One year

#### Air Leaks- Gases- Fluids

Do your compressors run on the weekends when the plant is unoccupied? Do you have difficulty maintaining optimum pressures? Have you come to rely on your backup compressor for routine demand? **Still think Air is Free???** Save thousands in energy costs by repairing air leaks. Also detects Freon, Propane and all gas leaks.



**Testing for air leaks with the SG-2sound generator and VPE 1000**

#### Steam Traps & Valves- All Fluid Valves

A major source of energy loss is through leaking steam traps and valves. Leaking steam traps are tremendously inefficient ... **it's like trying to heat your house with the windows open.** And bad steam traps are surprisingly common, roughly 30% of the traps in a plant with no trap testing programs will be leaking! Use the contact probe to quickly hear internal flow through steam traps and valves.



**Testing steam traps is simple**

#### Rolling Element Bearings

Using ultrasound to identify bearing wear in its **early stages** can be a valuable tool toward avoiding major downtime. As internal components in moving machinery begin to wear, increased friction creates subtle changes in the ultrasonic sound being generated. **These changes in ultrasound present themselves before other signs like heat or vibration are noticeable.**

### Reliability Direct, Inc.

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