



Leak Detectors

# Ultrasonic Leak Detector Tru Pointe® 1100



The Tru Pointe® 1100 is a state-of-the-art digital ultrasonic inspection system for leak detection, mechanical inspection and troubleshooting. The principle of operation of the Tru Pointe® 1100 is based on the detection of ultrasonic acoustics produced by the turbulent flow of gases and liquids in leaks, both internal and external. Carrying multiple patents, the Tru Pointe® 1100 incorporates two independent sensors that identify external (airborne) leaks and internal (structural) leaks of any gas.

## Detect Leaks Using Ultrasound

The Tru Pointe® 1100 accurately detects ultrasounds generated by leaks which are inaudible to humans and pinpoints them at the speed of sound. Ultrasound from leaks or mechanical problems, like bearing wear, is translated into audible tones by an electronic process called heterodyning where they can be heard in the headset. Simultaneously, the audio intensity is displayed on dual displays - a bar graph with peak hold and an alphanumeric multifunctional display. Independent sensitivity and volume controls allow the user to 'tune' into a sound through the unique AudioZoom™ feature and on-the-fly sensitivity changes.

The Tru Pointe® 1100 detects airborne leaks or electrical arcing in the frequency band of 34 kHz to 42 kHz and 16 kHz to 24 kHz for internal leaks or bearing wear using the patented internal Touch Probe sensor. The user can easily toggle between the two modes in four button clicks without having to reset any previous selections.

For Airborne Leak Detection: The Tru Pointe® 1100 is capable of detecting ANY Gas (compressed air, refrigerants, nitrogen, CO<sub>2</sub>, helium, vacuum and many others)

For Structural Leak Detection: The Tru Pointe® 1100 is capable of detecting internal leaks in steam traps, valves, solenoids, pumps and hydraulics (cylinders, controls, etc.).

## Tru Pointe® 1100 Features & Benefits:

- Capable of detecting a 5 PSI leak out of a 0.005" hole, 30 to 40 feet away (depending on background noise).
- Unaffected by the presence of other gases or sounds in the test area.
- Unaffected by wind or temperature fluctuations.
- Includes high-quality noise attenuating headphones compatible with hard hats.
- Unique AudioZoom™ volume control.

### Ordering Information

#### Tru Pointe® 1100 Ultrasonic Leak Detector

|                |                                                               |
|----------------|---------------------------------------------------------------|
| <b>28-8002</b> | Tru Pointe® 1100 Ultrasonic Leak Detector Kit                 |
| <b>28-8012</b> | Tru Pointe® 1100 Ultrasonic Leak Detector Kit w/SoundBlaster® |



### Tru Pointe® 1100 Specifications

|                                  |                                                                               |
|----------------------------------|-------------------------------------------------------------------------------|
| <b>Mechanical:</b>               |                                                                               |
| Dimensions:                      | 8.185" (20.78cm) X 2.4" (61mm) X .875" (22.22mm)                              |
| Weight:                          | 0.5lb (233gr) Includes Battery                                                |
| Body Materials:                  | Durable ABS & Anodized Aluminum                                               |
| Audio Connector:                 | 3.5mm Stereo                                                                  |
| <b>Electrical:</b>               |                                                                               |
| Airborne Sensor Sensitivity:     | -80db/V-μbar                                                                  |
| Ultrasound Converter Type:       | Digitally Controlled Heterodyne                                               |
| Frequency response, Airborne:    | 34kHz-42kHz                                                                   |
| Frequency response, Touch Probe: | 16kHz-24kHz                                                                   |
| Controls:                        | 4 Buttons (with AudioZoom™)                                                   |
| Output, Audio:                   | 0Hz to 4kHz                                                                   |
| Output, Visual:                  | 20 Element Bar Graph with Peak-Hold and Separate Alphanumeric Digital Display |
| Low Battery Indicator:           | Digital Display, BATT                                                         |
| Insufficient Battery Charge:     | Automatic Shut-Down                                                           |
| Battery Type:                    | 9 Volt                                                                        |
| Run Time:                        | 55-80 hrs                                                                     |

When combined with the ultrasonic sound generator, the SoundBlaster®, the Tru Pointe® 1100 can detect leaks from tanks, enclosures, building doors & windows, automobile windows & windshields, walk-in coolers, clean rooms ship hatches and compartments.



**Touch Probe**- Helps convert sounds within valves or solids to airborne sound for the Tru Pointe® Ultra to detect. (Patented).



### Distributed By:

