



# Ultrasonic Inspection System

## Tru Pointe® 2100



The Tru Pointe® 2100 is an advanced electronic ultrasonic leak detector and condition monitor used by maintenance personnel for leak detection, preventive and predictive maintenance (PPM) and scheduled maintenance in a variety of industries. Using patented signal processing, the Tru Pointe® 2100 is the most accurate and repeatable ultrasonic inspection instrument in its class.

### Multi-Purpose Ultrasonic Instrument

The Tru Pointe® 2100 is extremely sensitive to the “sound” of leaks and friction in commercial and industrial systems and provides the most precise readings available. The operating principle of the Tru Pointe® 2100 is based on the detection and measurement of ultrasound and its conversion into audio for humans to hear using a technique called heterodyning. Ultrasound is generated in leaks, external & internal, friction in bearings & mechanisms, faulty steam traps and valves. The Tru Pointe® 2100 will help locate problems by detecting the ultrasounds they generate.

The first of its kind, the Tru Pointe® 2100 uses two software-controlled sensors for the detection of airborne leak sounds and for the detection and location of solid-borne sounds from leaks and bearing wear. For ease of use and interpretation, the Tru Pointe® 2100 has two digital LED displays - a 20-segment bargraph display with peak hold and an alphanumeric display for instrument settings and precision measurements.

The Tru Pointe® 2100 detects air and gas leaks in two frequency bands for isolating leaks; 26 kHz-34 kHz (low) and 34 kHz-42 kHz (high). Using the patented internal Touch Probe sensor, the instrument detects internal leaks in two ultrasonic bands; 16 kHz-24 kHz (low) and 34 kHz-42 kHz (high). Additionally it has the capability to function like a stethoscope, using an industry-exclusive acoustic band, 0-10kHz.

## Tru Pointe® 2100 Features & Benefits

- Capable of detecting a 5 PSI leak out of a 0.005" hole, 30 to 40 feet away (depending on background noise).
- Capable of detecting ANY gas leaks, regardless of chemical property or concentration.
- Ideal for steam trap testing, detecting bearing wear, gas and valve leaks.
- Unaffected by wind or temperature fluctuations, other sounds or gases in the test area.
- Kit includes the Tru Pointe® 2100, high-quality noise attenuating headphones, 6" Touch Probe, segmented 3' extension Touch Probe, 6" Wave Guide– packed in a hard plastic carrying case.
- Unique AudioZoom™ volume control.

Tru Pointe® 2100 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:	Aluminum and ABS
Audio Connector:	3.5mm Stereo
<b>Electrical:</b>	
Airborne Sensor Sensitivity:	-80db/V-μbar
Ultrasound Converter Type:	Digitally Controlled Heterodyne
Frequency response, Airborne, High:	AirHi: 34kHz to 42kHz
Frequency response, Airborne, Low:	AirLow: 26kHz to 34kHz
Frequency response, Touch Probe High:	PbHi: 34kHz to 42kHz
Frequency response, Touch Probe, Low:	PbLo 16kHz to 24kHz
Frequency response, Touch Probe, Sonic:	PbS: 0 to 10kHz
Controls:	4 Buttons (w/ Audio Zoom™)
Output, Audio:	0Hz to 4kHz
Output, Visual:	20 Segment Bar Graph with Peak-Hold and Separate Alphanumeric Digital Display
Signal Output:	Heterodyne
ON Indicator:	Digital Display
Battery Type:	9 Volt
Run Time:	55-80 hrs

When combined with the ultrasonic sound generator, the SoundBlaster®, the Tru Pointe® 2100 can detect leaks from tanks, enclosures, building doors & windows, automobile windows & windshields, walk-in coolers, clean rooms ship hatches and compartments.

Tru Pointe® 2100 Ultrasonic Leak Detector	
Ordering Information	
28-8003	Tru Pointe® 2100 Ultrasonic Leak Detector Kit
28-8013	Tru Pointe® 2100 Ultrasonic Leak Detector Kit w/SoundBlaster®



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