

PRODUCT BULLETIN



May 19, 2010

Issue 10-05.1

Bacharach Launches Tru Pointe[®] Ultrasonic Instruments

Bacharach is pleased to announce the release of a new series of leak detectors and inspection instruments using ultrasound technology. The Tru Pointe[®] ultrasonic instruments are electronic devices that detect the inaudible high frequency sound (ultrasound) of high pressure leaks and mechanical wear. Through a process called heterodyning, the ultrasonic sound of a leak or friction is converted to a lower frequency where it can be heard by humans through headphones. Using patented technology, the Tru Pointe[®] ultrasonic instruments guide the user to a problem area or leak by quantifying the intensity of the ultrasound both audibly and visually on the instruments' displays.

The Tru Pointe[®] Ultra has been specifically designed for air conditioning and refrigeration (HVAC-R) leak detection. The Tru Pointe[®] Ultra is the only test system that can simultaneously detect vacuum, pressure and internal leaks using the patented Resonator Touch Probe. Since the instrument detects only sound, it is gas-independent and can be used to detect leaks at the speed of sound. The Tru Pointe[®] Ultra kit includes a compact headset while the Ultra HD kit includes high quality stereo headphones.



Based on one common technology platform with two independent sensors, the Tru Pointe[®] 1100 and Tru Pointe[®] 2100 are used for leak detection and preventive/predictive maintenance (PPM). The airborne sensor is used to detect vacuum leaks and pressurized leaks of compressed air, refrigerants, steam and nitrogen. The patented internal Touch Probe sensor allows for quick detection of flow abnormalities in pumps, steam traps and valves, as well as mechanical wear in bearings and other moving machine parts. Model 2100 has multiple detection bands and is the ideal inspection tool for finding elusive leaks and wear problems.

FEATURES & BENEFITS



Tru Pointe[®] Ultra & Tru Pointe[®] Ultra HD Ultrasonic Leak Detectors

Feature	Benefit
<ul style="list-style-type: none"> • Responds to the ultrasound leaks generate, not the chemical property of a gas 	Detects ALL gases - not dependent on gas chemistry
<ul style="list-style-type: none"> • Detection based on ultrasound 	<ul style="list-style-type: none"> • Detects all Freon gases, CO₂, nitrogen and <i>vacuum</i> leaks making leak testing and charging HVAC/R systems fast and cost-effective • Not affected by wind or high concentrations of leaked gases in the area • Capable of detecting from a distance • Capable of detecting at the speed of sound
<ul style="list-style-type: none"> • Patented heterodyne technology 	Converts ultrasound to natural audio sound; makes detection simple and intuitive
<ul style="list-style-type: none"> • 10-segment LED intensity meter 	Fast decision-making as to the location and/or intensity of leak
<ul style="list-style-type: none"> • Infinitely variable slide sensitivity control 	Instant change of sensitivity to “tune” into the leak of interest within thousandths of an inch
<ul style="list-style-type: none"> • Instant ON/OFF button 	No warm up needed - detects instantly. Instant off with release of the button saves battery life.
<ul style="list-style-type: none"> • Powered by one 9Volt battery 	Convenience - no need to wait to charge internal batteries; available everywhere
<ul style="list-style-type: none"> • Small size/ light weight 	Easy to use and carry. Can be used with one hand and can fit in tight spaces
<ul style="list-style-type: none"> • Patented Resonator Touch Probe 	Allows user to quickly find stuck valves, malfunctioning Thermal Expansion Valves (TXV) and other mechanical problems
<ul style="list-style-type: none"> • Hi-Fi folding headset with volume control (Ultra); Noise-attenuating over-the-head headphones (Ultra HD) 	Crystal clear sound; allows user to distinguish between minute sounds in the background
<ul style="list-style-type: none"> • Sturdy carrying case with bright labels 	Holds all items for safe storage and makes it very easy to locate on a job site.

5/19/10 Rev 0

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SPECIFICATIONS	Tru Pointe® Ultra /Ultra HD	Tru Pointe® 1100	Tru Pointe® 2100
Mechanical			
Dimensions	5.5" (14cm) X 2.4" (61mm) X 0.875" (22.22mm)	8.185" (20.78cm) X 2.4" (61mm) X 0.875" (22.22mm)	8.185" (20.78cm) X 2.4" (61mm) X 0.875" (22.22mm)
Weight	0.3lb (138gr) Includes Battery	0.5 lb (233gr) Includes Battery	0.5 lb (233gr) Includes Battery
Body Materials	Durable ABS	Durable ABS & Anodized Aluminum	Durable ABS & Anodized Aluminum
Audio Connector	3.5mm Stereo	3.5mm Stereo	3.5mm Stereo
Included Headset	Ultra: Compact, Folding Headset Ultra HD: Hi-Fi Stereo Attenuating Over-the-Head Headphones	Hi-Fi Stereo Attenuating Behind-the-Head Headphones	Hi-Fi Stereo Attenuating Behind-the-Head Headphones
Electrical			
Airborne Sensor Sensitivity	-80db/V-μbar	-80db/V-μbar	-80db/V-μbar
Ultrasound Converter Type	Analog Controlled Heterodyne	Digitally Controlled Heterodyne	Digitally Controlled Heterodyne
Frequency Response, Airborne (High)	34kHz to 42kHz	34kHz-42kHz	AirHi: 34kHz to 42kHz
Frequency Response, Airborne (Low)	N/A	N/A	AirLow: 26kHz to 34kHz
Frequency Response, Touch Probe (High)	34kHz to 42kHz (when using Resonator Touch Probe)	N/A	PbHi: 34kHz to 42kHz
Frequency Response, Touch Probe (Low)	N/A	16kHz-24kHz	PbLo 16kHz to 24kHz
Frequency Response, Touch Probe, Sonic	N/A	N/A	PbS: 0 to 10kHz
Output - Audio	0Hz to 4kHz	0Hz to 4kHz	0Hz to 4kHz
Output - Visual	10 Segment Bar Graph	20 Segment Bar Graph with Peak-Hold and Separate Alphanumeric Digital Display	20 Segment Bar Graph with Peak-Hold and Separate Alphanumeric Digital Display
Controls	1 Button, plus sensitivity slide	4 Buttons (w/Audio Zoom™)	4 Buttons (w/Audio Zoom™)
Low Battery Indicator	N/A	Digital Display - BATT	Digital Display - BATT
Insufficient Battery Charge	Automatic Shutoff	Automatic Shutdown	Automatic Shutdown
Battery Type	9-Volt	9-Volt	9-Volt
Run Time	80-120 hrs	55-80 hrs	55-80 hrs
Warranty			
Instrument	1 year	1 year	1 year

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