ULTRAPROBE® 100

Analog Ultrasonic Inspection System Saves Money, Energy and Time!

The Ultraprobe® 100 is a practical tool for *any* leak detection, steam trap inspection or mechanical trouble-shooting program. Simple to use – find compressed air and steam leaks and prevent machinery failure with this unique instrument.

Why Ultrasound Technology is the smart approach to inspection:

- **Ultrasound is very directional and localized**
- **Ultrasound can be easily blocked or shielded**
- **Ultrasound instruments can be used in noisy environments**
- **Changes in Ultrasound provide early warning of potential problems**
- **Ultrasound instruments are easy to use!**

Ultraprobe 100 testing pump valve leaks

The Ultraprobe 100 features an 8-position sensitivity dial with decibel indications. In addition, it features an LED bar graph display in which each LED equals approximately 3 dB — ideal for calculating decibel levels.

Pneumatic testing

Tests steam traps

ue SYSTEMS INC

The ultrasound approach

ULTRAPROBE® 100 KIT

Ultraprobe® 100 KIT

UP100KT
Ultraprobe 100 Kit

- UP 100 Pistol with LED Bar Graph Meter
- 8 Position Sensitivity Selection
- Scanning Module
- Rubber Focusing Probe
- Stethoscope Module
- Warble Tone Generator (WTG-1) with Battery Recharger
- Lightweight "Walkman"-Style Headset
- 9 Volt Alkaline Battery (Replaceable)
- Nylon Cordura Soft Carrying Case
- Comprehensive Instruction Manual

UP100SC
Ultraprobe 100 Stethoscope/Scanner Kit

Includes scanning module & stethoscope module.

UP100S
Ultraprobe 100 Scanner Kit

Includes scanning module & rubber probe.

UP100C
Ultraprobe 100 Stethoscope Kit

Includes contact module.

GSA Listed

CE

Application Selection Chart

APPLICATION	KIT #	UP100KT	UP100SC	UP100S	UP100C
Pressure & Vacuum Leak Detection		✔	✔	✔	
Valve Seat Leak Detection		✔	✔		✔
Exhaust System Leaks		✔	✔	✔	
Heat Exchangers, Boilers, Condensers		✔	✔	✔	
Steam Trap Inspection		✔	✔		✔
Bearing Testing		✔	✔		✔
Gear/Gear Box Inspection		✔	✔		✔
Wind Noise/Water Leaks/Hatches		✔			
General Mechanical Inspection & Trouble Shooting		✔	✔		✔
Tanks, Pipes, Leak Testing, etc.		✔	✔	✔	
Electrical Inspection		✔	✔	✔	

Available Accessories (Call, fax or e-mail for information)

- Holster Set
- Liquid Leak Amplifier (Ultrasonic bubble test for low level leaks)
- Stethoscope Extension Kit
- Speaker Amplifier
- Specialized Tone Generators (Used instead of pressure test, transmits ultrasound through a leak – *Fast & Easy!*)
- DHC-2H Deluxe Noise Isolating Headset
- LRM-1 Long Range Module

ULTRAPROBE® 100 Specifications

Construction:	Hand-held ABS pistol type ultrasonic processor, stainless steel sensor enclosures
Circuitry:	SMD/Solid State hybrid heterodyne receiver
Frequency Response:	Peak response: 36-44 kHz
Indicator:	10 segment LED Bar Graph (red)
Sensitivity Selection:	8 position precision attenuation
Power:	9 Volt Alkaline Battery
Low Battery Voltage Indicator:	LED
Headset:	Weight: 2.5 oz. Operating Temperature Range: -22° to 167° F (-30° to +75° C) Cable: 48" shielded Cable Pull: 20 lbs. Frequency Range: 300 to 3000 Hz Impedance: 150Ω Molded Connector
Probes:	**Scanning Module** (SCM-1) Stainless Steel Unisonic (single transducer) piezo electric crystal type; Stethoscope/Contact Module (STM-1), Stainless Steel plug-in type with 5.5", Stainless Steel Waveguide **Rubber Focusing Probe** Shields stray ultrasonic signals and focuses detected signals
Transmitter:	Patented warble tone transmission
Response time:	300 msec
Ambient Operating Temperature Range:	32°-120° F (0-50° C)
Relative Humidity:	10-95% non-condensing at up to 86° F (30° C)
Storage Temperature:	0°-130° F (18°-54° C)
Warranty:	1-year parts/labor standard, (details available on request). 5 years with completed warranty registration card.
Dimensions:	5.25" x 2" x 8" (13.3 x 5 x 20.3 cm)
Weight:	11 oz (.3 kg)
Carrying Case:	Nylon Cordura soft carrying case

Ultraprobe 100 Kit: Meets and exceeds ASTM E1002-2005 requirements for Leak Detection.
Covered by one or more of the following patents: 0151115; 0303776; 0315199; 1206586; 1297576; 1881263; 2562758; 2689339; 4416145; 4823600; 5955670; 6122966; 6339961; 6341518; 6415645; 6655214; 6707762; 6804992
UE Systems is committed to continual product improvement; therefore specifications are subject to change without notice. Warranty details are available by request.

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The ultrasound approach

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