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# 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 troubleshooting 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.



# 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

<b>Construction:</b>	Hand-held ABS pistol type ultrasonic processor, stainless steel sensor enclosures
<b>Circuitry:</b>	SMD/Solid State hybrid heterodyne receiver
<b>Frequency Response:</b>	Peak response: 36-44 kHz
<b>Indicator:</b>	10 segment LED Bar Graph (red)
<b>Sensitivity Selection:</b>	8 position precision attenuation
<b>Power:</b>	9 Volt Alkaline Battery
<b>Low Battery Voltage Indicator:</b>	LED
<b>Headset:</b>	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
<b>Probes:</b>	<b>Scanning Module (SCM-1)</b> Stainless Steel Unisonic (single transducer) piezo electric crystal type; <b>Stethoscope/Contact Module (STM-1)</b> , Stainless Steel plug-in type with 5.5"; <b>Stainless Steel Waveguide Rubber Focusing Probe</b> Shields stray ultrasonic signals and focuses detected signals
<b>Transmitter:</b>	Patented warble tone transmission
<b>Response time:</b>	300 msec
<b>Ambient Operating Temperature Range:</b>	32°-120° F (0-50° C)
<b>Relative Humidity:</b>	10-95% non-condensing at up to 86° F (30° C)
<b>Storage Temperature:</b>	0°-130° F (18°-54° C)
<b>Warranty:</b>	1-year parts/labor standard, (details available on request). 5 years with completed warranty registration card.
<b>Dimensions:</b>	5.25" x 2" x 8" (13.3 x 5 x 20.3 cm)
<b>Weight:</b>	11 oz (.3 kg)
<b>Carrying Case:</b>	Nylon Cordura soft carrying case
<b>Ultraprobe 100 Kit:</b> Meets and exceeds ASTM E1002-2005 requirements for Leak Detection. <b>Covered by one or more of the following patents:</b> 0151115; 0303776; 0315199; 1206586; 1297576; 1881263; 2562758; 2689339; 4416145; 4823600; 5955670; 6122966; 6339961; 6341518; 6415645; 6655214; 6707762; 6804992	

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