

# ULTRAPROBE® 100

Efficient ultrasonic leak detection & valve testing for saving energy, time & money

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!

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.



Test steam traps



## UP100KT

### Ultraprobe® 100 Kit

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



### 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.

### Available Optional Accessories

- 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



Long range 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		•	•	•	

### 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: 0.07 kg (2.5 oz) Operating Temperature Range: -30 °C to +75 °C (-22 °F to 167 °F) Cable: 122cm (48") shielded Cable Pull: 9,07 kg (20 lbs.) Frequency Range: 300 to 3000 Hz Impedance: 150Ω Molded Connector
<b>Probes</b>	<b>Scanning Module</b> (SCM-1), Stainless Steel Unisonic (single transducer) piezo electric crystal type; <b>Stethoscope/Contact Module</b> (STM-1), Stainless Steel plug-in type with 14 cm (5.5"), Stainless Steel Waveguide <b>Rubber Focusing Probe</b> Shields stray ultrasonic signals and focuses detected signals
<b>Transmitter</b>	Patented warble tone transmission
<b>Response time</b>	Response time: 300 msec
<b>Ambient Operating Temp. Range</b>	0 - 50 °C (32 °F - 120 °F)
<b>Relative Humidity</b>	10-95% non-condensing at up to 30 °C (86 °F)
<b>Storage Temperature</b>	18 °C - 54 °C (0 °F - 130 °F)
<b>Warranty</b>	1-year parts/labor standard, (details available on request) 5 years with completed warranty registration card
<b>Dimensions</b>	13.3 x 5 x 20.3 cm (5.25" x 2" x 8")
<b>Weight</b>	0.3 kg (11 oz)
<b>Carrying Case</b>	Nylon Cordura soft carrying case



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