The Ultraprobe® 2000 flexibility and adaptability easily adjusts to meet a wide range of testing demands. This intrinsically safe instrument tests for leaks as well as performs mechanical and electrical inspections.

**Flexible / Adaptable** Recognizing that every test environment is different, our engineers designed the Ultraprobe with many user-friendly features, which can be adapted to approach virtually any inspection requirement.

**Frequency Tuning** allows the operator to select the specific frequency of a problem sound while reducing interference from competing ultrasonic signals.

**Bi-Modal Meter Switch** has two meter functions: 1) *Logarithmic Metering* will provide instant ‘real time’ re-sponse for enhanced leak and fault detection. 2) *Linear Mode* provides a slow, averaging response to stabilize readings for bearing and mechanical monitoring.

**A 10-turn Sensitivity Adjust Dial** provides a wide dynamic sensitivity range.

**Trisonic™ Scanning Module** a patented transducer, consists of a phased array of three transducers, which provides a level of sensitivity beyond anything previously obtainable.

**Acoustic Headphones:**
- Noise isolating type for loud environments.

**Intrinsically Safe:**
- FM, CSA, ATEX rated

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**APPLICATION SELECTION CHART**

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**Stethoscope module**

**Long range module**

**Close focus module**
Ultrasonic CD Training Series is Included

This professionally produced series was shot in actual plant environments enabling you to see, hear and experience realistic test examples along with practical solutions. The training series is applicable for all levels of ultrasonic testing experience and is arranged in an organized format. You’ll be taken step by step through each application. The following sections are included in the CD’s:

- Introduction to Airborne Ultrasound
- Review of each Ultraprobe Feature
- Overview of the Specific Application (Leak Detection, Mechanical and Bearing Inspection, Heat Exchangers, Boilers & Condensers, Steam Traps & Valves, Electrical Inspection)
- Demonstration of Testing Techniques
- Problem Solving Techniques

Ultraprobe® 2000 Specifications

**Construction**
Hand-held metered pistol type made with aluminum and ABS plastic

**Circuitry**
Solid State heterodyne receiver with temperature compensation

**Frequency Response**
Frequency Detect ultrasonic frequencies between 20 kHz and 100 kHz, continuously variable

**Probes**
- Scanning Module: patented Trisonic plug-in type consisting of a phased array of multiple transducers for airborne ultrasound. This probe is shielded against RF interference.
- Rubber Focusing Probe: (flexible) slips over scanning module to concentrate conical directivity and to shield reception of stray ultrasound. Also fits over Stethoscope Module to shield against high ambient ultrasound while unit is at maximum sensitivity.
- Stethoscope Module: plug-in type, insulated probe with RF shielding; 11.4 cm (4 1/2”) long stainless steel probe tip, conically shaped for uniform surface contact. Stethoscope Extension Kit: 3-piece, segmented metal rods to increase stethoscope contact range for 50.8 cm (20”) and 76.2 cm (31”).

**Transmitter**
Patented warble tone transmission

**Headset**

**Indicators**
Ballistic output meter; linear calibration scale of 0-100 for logging relative measurements. Meter is accurate 1% throughout entire scale. Low Level Battery LED indicator for main housing internal power supply.

**Battery**
Self contained NiMH rechargeable.

**Features**
- Frequency Tuning Adjustment Dial: 20-100 kHz with "fixed band" position for ultra-narrow frequency response.
- Bi-Modal Meter Switch
  for logarithmic and linear meter scale adjustments.
- Optional Auxiliary Mode
  selection for chart recorder output: 0-50 mV.
- Sensitivity Control
  - Precision 10-turn adjustment dial with numerically calibrated sensitivity increments for finite gain adjustment.
  - Spring loaded trigger switch

**Overall Size**
Complete kit in Zero Halliburton aluminum carrying case: 47 x 37 x 17 cm (18.5” x 14.5” x 6.5”)

Pistol unit: 0.9 kg (2 lbs.)

Complete carrying case: 6.4 kg (14 lbs.)

**Sensitivity**
Detects 0.127 mm (0.005”) diameter leak @ 0.34 bar (5 psi) at a distance of 15.24 m (50 ft.)

**Threshold**
1 x 10⁻² std. cc/sec to 1 x 10⁻³ std. cc/sec

**Warranty**
1-year parts/labor standard, 5 years with completed warranty registration card.

**Display Modes**
Logarithmic and linear

*depends on leak configuration
**specify Ex rating if needed at time of order

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