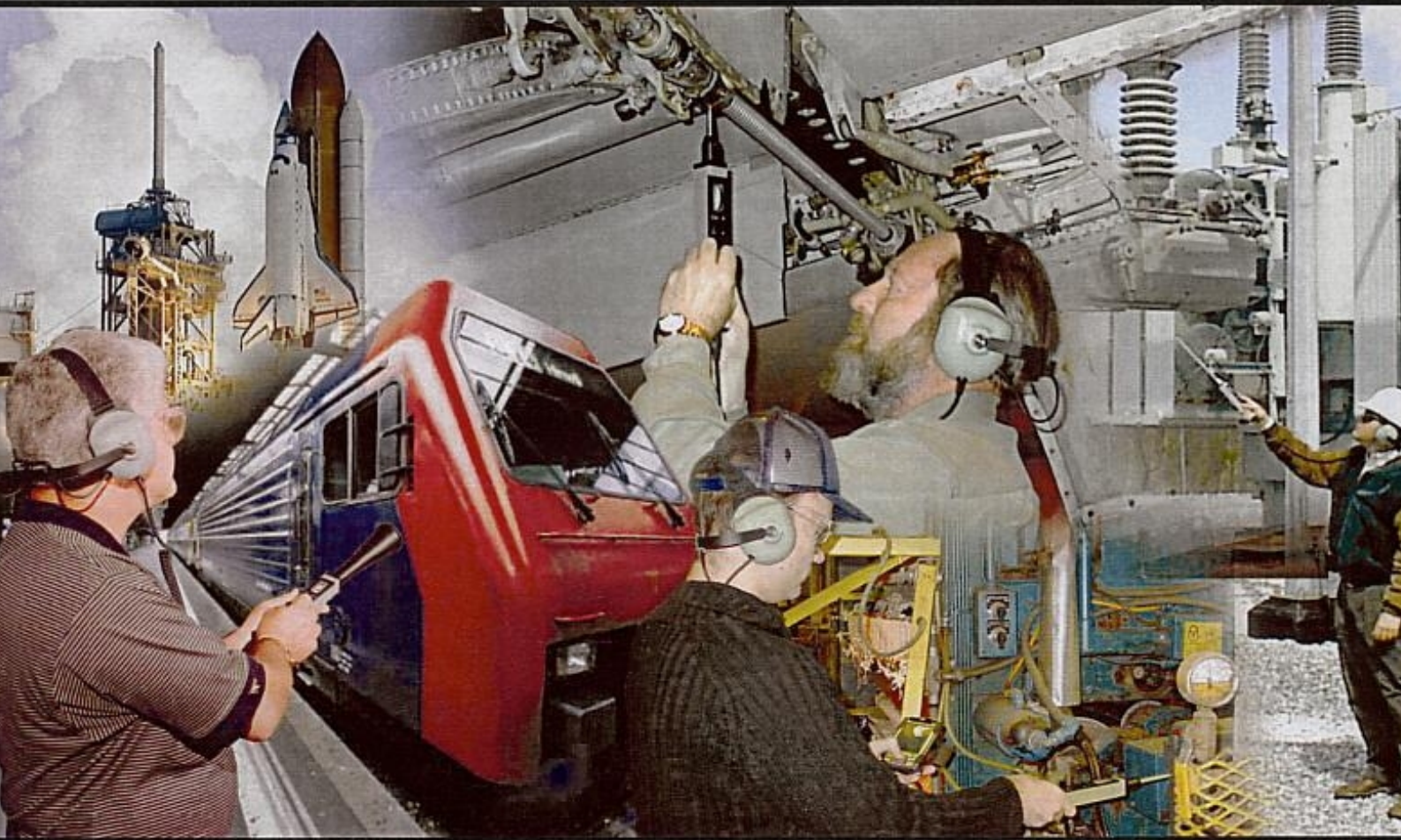


# CTRL Systems Product Catalog



## Solutions for:

**Predictive Maintenance  
Equipment Condition Analysis  
Leak Detection**

- *prevent unplanned downtime* • *reduce maintenance costs* •
- *improve safety* • *decrease energy costs* • *prolong equipment life* •

**CTRL UL101 Ultrasonic Inspection Kit**



Originally designed for the U.S. Military, the CTRL UL101 is now used worldwide for predictive maintenance. The UL101 Receiver converts ultrasound signals produced by critical equipment into audible sounds that are easily recognizable so the user can evaluate the condition of individual components - even in extremely noisy environments. Early warning signs and defects can be detected preventing costly repairs, safety related injuries, and downtime. Applications include mechanical, hydraulic, electrical, vacuum, pressurized, and non-pressurized systems and components.

**Standard Model**

P/N: 000031

One Year Warranty: 1<sup>st</sup> Year (included with purchase)  
 Extended Warranty: 2<sup>nd</sup> Year  
 Extended Warranty: 4 Additional Years

**Intrinsically Safe Model**

P/N: 000033

One Year Warranty: 1<sup>st</sup> Year (included with purchase)  
 Extended Warranty: 2<sup>nd</sup> Year  
 Extended Warranty: 4 Additional Years

**Components Included in CTRL UL101 Kit**

**UL101 RECEIVER (A)**

Handheld sensor with analog meter detects ultrasound from a greater distance with a higher signal to noise ratio than any other sensor on the market today. Easy-to-use controls include output switch, gain mode switch, and potentiometer. No calibration or special maintenance necessary. Operates on a single 9-volt battery for approximately 33 hours of continuous use.

Standard Model

P/N: 026005

Intrinsically Safe Model

P/N: 026007

**UT2000 UNIVERSAL TRANSMITTER (B)**

Fills non-pressurized vessels/cavities with ultrasound by emitting an ultrasonic signal to create a sense of pressure. Enables the detection of leaks in seals, gaskets, and welds with a quick scan of the Receiver. No calibration or special maintenance is necessary. Operates on a single 9-volt battery for 300 hrs of continuous use.

Standard Model

P/N: 026010

Intrinsically Safe Model

P/N: 026012

**INDUSTRIAL GRADE HEADSET (C)**

Allows the user to hear the converted ultrasound while reducing the amount of ambient audible sound. This is the same headset used by pilots. Headset is available in two models: Over the Head (OTH) and Behind the Head (BTH) for use with hardhat.

Over the Head (OTH)

P/N: 025010

Behind the Head (BTH)

P/N: 025005

**CONCENTRATOR SET**

Self-threaded, high-grade plastic attachments for scan mode increase the scope and precision of inspection. The conical shaped Large Concentrator more than doubles the distance for reception of ultrasound and narrows the focus of reception from approximately 45° to 5° from center. The conical shaped Mini Concentrator narrows the area of reception to less than 5° from center, blocking competing sounds and improving accuracy in pinpointing specific failures. The small size provides the ability to access hard to reach locations. Inverted conical shaped Acoustic Tip attachment pinpoints airborne ultrasound with high precision from a short distance. Recommended for small leaks.

Large Concentrator (D)

P/N: 070007

Mini Concentrator (E)

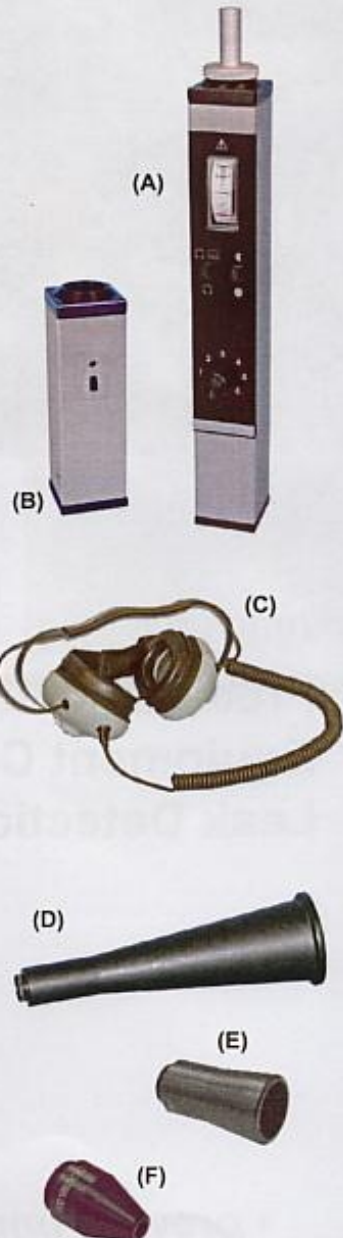
P/N: 070009

Acoustic Tip (F)

P/N: 070037

Concentrator Set (Includes Case)

P/N: 000065



**Components Included in CTRL UL101 Kit *continued***

**SOLID PROBE SET**

*Set of selectable length probes for contact mode for inspections of mechanical components including bearings, gears, motors, and hydraulics. Each length is designed for reach in different situations, while maintaining integrity of sound reception. Provide increased clarity and reduction of competing noise.*

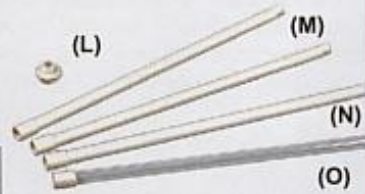
3-inch Solid Probe (K)	P/N: 040045
5-inch Solid Probe (J)	P/N: 040050
8-inch Solid Probe (I)	P/N: 040055
13-inch Solid Probe (H)	P/N: 040060
23-inch Solid Probe (G)	P/N: 040065
Full Solid Probe Set with Wrap	P/N: 000050



**ACOUSTIC EXTENSION PROBE SET**

*Designed for difficult plant conditions, such as hard to reach areas or working around electrical components. Each probe can be connected together to provide additional reach up to 3 feet. The set includes 2 probes with double threaded ends, 1 single threaded probe, 1 polycarbonate probe for electrical inspection, and one adapter.*

Adapter (L)	P/N: 070005
Metal Acoustic Probe (M) 12-in., double threaded end	P/N: 070045
Metal Acoustic Probe (N) 12-in., single threaded end	P/N: 070050
Polycarbonate Probe (O) 12-in.	P/N: 070040
Full Acoustic Extension Probe Set	P/N: 000005



**1-INCH ACOUSTIC PROBE (P)**

P/N: 070035

**CARRYING CASE**

P/N: 020015

**ULTRASONIC TECHNOLOGY/UL101 TRAINING**

*1-½ day training at CTRL Corporate Office in Westminster, MD includes an introduction to the principals and benefits of ultrasonic technology, hands-on demonstrations, field trip, techniques for determining the condition of critical bearings, for pinpointing gas leaks, and more. A free training session for one attendee is included with the purchase of a complete CTRL UL101 Kit. On-site training also available. Contact CTRL for quotation.*

TRAINING CD (Q)	P/N: 005025
OPERATOR'S MANUAL (R)	P/N: 005010



**CTRL UL101 Accessories**

<b>RECEIVER JACKET (S)</b> <i>Protects the UL101 Receiver without restricting use of all controls. Prevents accidental scratching or damage during normal inspection activities. (Jacket shown at right with UL101 Receiver and Headset.)</i>	P/N: 005055
<b>BELT POUCH (T)</b> <i>Allows the user to keep hands free and the UL101 available for regularly scheduled or emergency inspection and diagnosis. Can hold the Receiver, Headset, Transmitter, and some attachments.</i>	P/N: 005035
<b>GEL EAR SEALS</b> <i>Partially filled with silicon gel, seals conform to facial contours to increase comfort and help block competing audible sounds, increasing attenuation from 2 to 3 dB.</i>	P/N: 005007
<b>DEFECT TAGS (U)</b> <i>Fluorescent color-coded tags identify components that need repair or require special attention. 2-part tag design with carbon copy for easy processing and job tracking. 100 per pack.</i>	
Priority 1 (Yellow) – Pack of 100 Tags	P/N: 030085
Priority 2 (Orange) – Pack of 100 Tags	P/N: 030086
Priority 3 (Red) – Pack of 100 Tags	P/N: 030087



<b>A/C ADAPTOR</b>	P/N: 000045
<b>UL101 Y-SPLITTER</b>	P/N: 005045

**PowerBeam 300**

The PowerBeam 300 attachment extends the range of the UL101 Receiver to 300 feet. Used for detection of malfunctions in electrical components, compressed air systems, steam traps, hydraulic systems, and bearings that cannot be tested in contact mode. A laser pointer zeros in on the component being tested and is powered by two AAA batteries. (PowerBeam 300 shown with the UL101 receiver. The UL101 is required for operation.)\*

\* The UL101 is sold separately.

PowerBeam 300 (V)

P/N: 007005



(V)

**SoundCTRL Equipment Condition Analysis System – New Item!**

The handheld SoundCTRL System connects directly to the UL101 Receiver for an easy one-step inspection-collection process. SoundCTRL recognizes the ultrasound signals received by the UL101 and immediately allows the user to record, play back, compare, and analyze audio and visual ultrasonic wave files of these signals for condition analysis. (HP iPAQ 5450 is shown at right with the SoundCTRL Pocket PC Software\*\*)

**System Includes:**

- State-of-the-Art Full Function HP Pocket PC iPAQ h5450 (W)
- SoundCTRL Software, Desktop PC Version (X)
- SoundCTRL Software, Pocket PC Version
- UL101-Pocket PC Connector Cable
- 1-Year Support Online Support and Product Upgrades
- ½-Day Training at CTRL Systems for One Attendee

\*\* SoundCTRL software is developed exclusively for CTRL Systems, Inc. by Stethographics, Inc. The UL101 is sold separately.

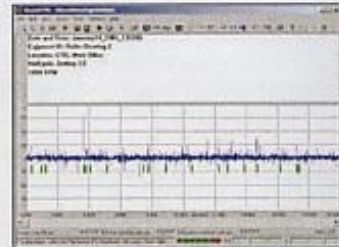
SoundCTRL System

P/N: 000010

(W)



(X)

**CTRL Series CMMS**

Web-based CMMS for control of mobile and stationary equipment allows for broad scope of use. Ability to access from remote offices or locations, while maintaining a central database. Dynamic set-up includes user-defined fields and advanced reporting and trending capabilities. Training and support plans available upon request.

- BaseCTRL – Unit identification and asset specification
- ScheduleCTRL – Maintenance scheduling, analysis, and reporting
- WorkOrderCTRL – Work order processing
- FuelCTRL – Automatic Fuel Interface



Contact CTRL Systems today to place an order or to request a quotation:

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[www.ctrlsys.com](http://www.ctrlsys.com)