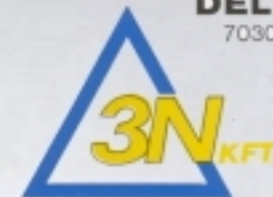


DELTA-3N KFT.

7030 Paks, Jedlik Á. u. 2.

Telefon: 75/510-115

Fax: 75/510-114



www.delta3n.hu

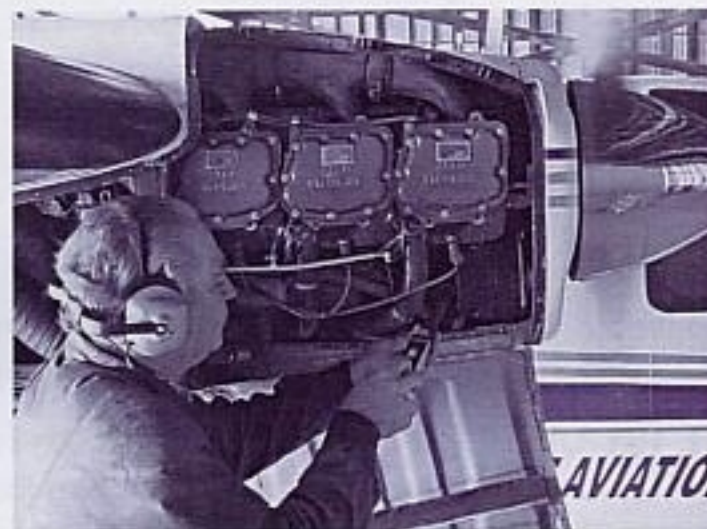
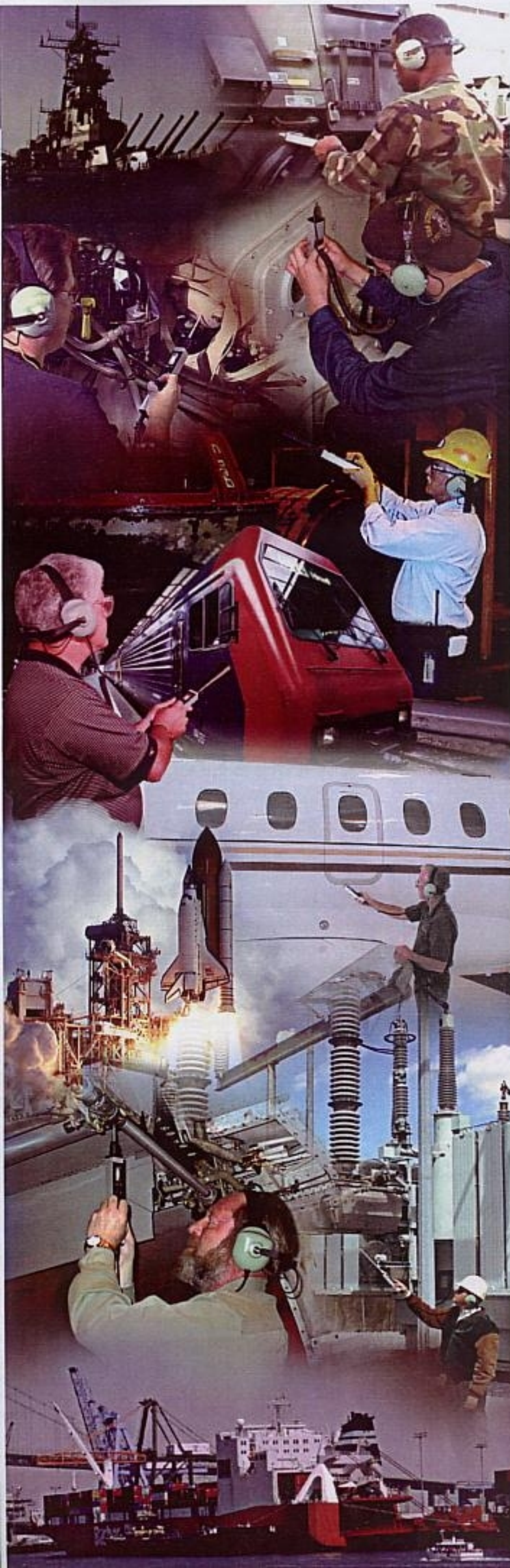


MSZ EN ISO 9001:2001
Tanúsítvány: MS 0324-173

CTRL UL101

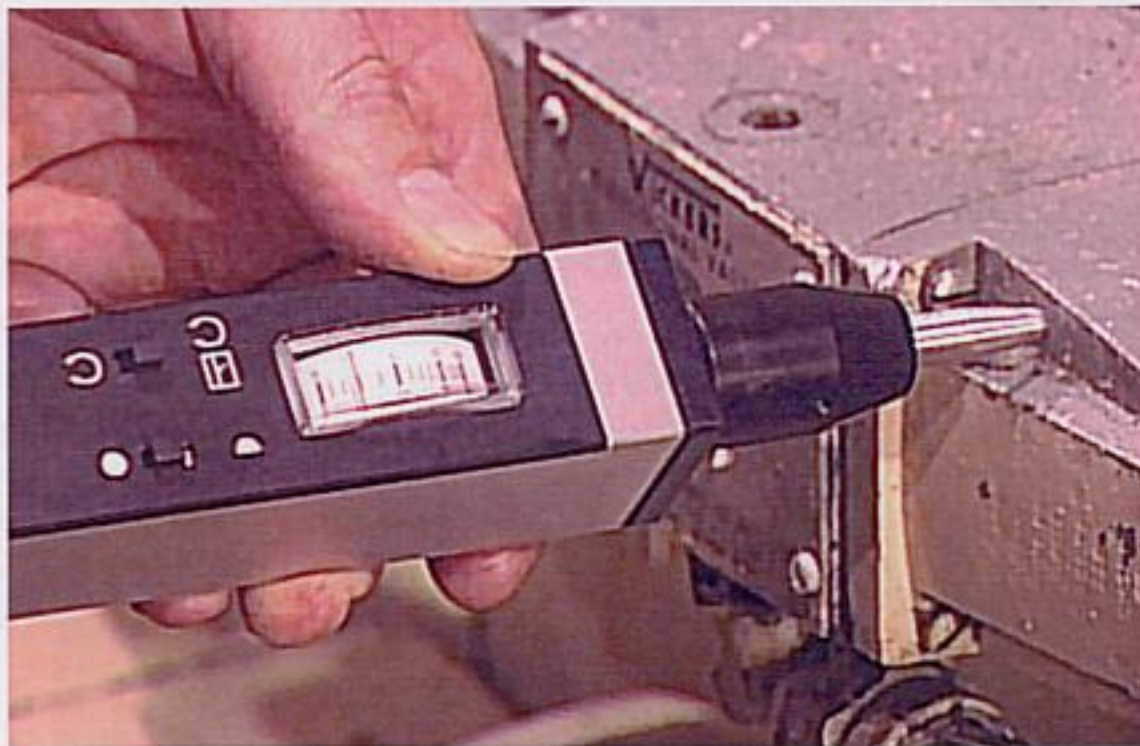
Ultrasonic Inspection System

*Non-Destructive Diagnostics for
Predictive Maintenance and Leak Detection*



CTRL UL101 Ultrasonic Inspection System

CTRL UL101 Ultrasonic Inspection System



Originally designed for the US Military, the CTRL UL101 Ultrasonic Inspection System is now used in several industries throughout the world for predictive maintenance, quality control, and leak detection.

The CTRL UL101 Receiver converts ultrasound signals produced by industrial machinery and vehicles into easily recognizable audible sounds so the user can evaluate the condition of individual components, even in extremely noisy plant environments. Early warning signs and defects can be detected thus preventing costly repairs, safety-related injuries, and downtime.

KEY PRODUCT FEATURES

- Unmatched sensitivity, signal-to-noise ratio, and selectivity
- Provides the capability for diagnosing component and system faults
- Designed for a wide range of applications from bearing analysis to leak detection
- Non-destructive; can be used while equipment is operating
- Convenient, handheld design for ease of use
- User-friendly controls include potentiometer for on/off power and sensitivity adjustment; output switch; and gain mode switch
- Dual-output analog meter for ultrasonic signal and battery level indication
- No calibration or special maintenance required
- Operated on a single 9V alkaline battery
- Extruded aluminum case maximizes tool life in harsh shop environment
- Includes several attachments for testing in contact and scan mode
- Selectable length probes increase the reach for testing
- Includes industrial grade headset available in over-the-head or behind-the-head model for use with hardhat
- Compatible with SoundCTRL System for signal logging, benchmarking, and trending

APPLICATIONS

Mechanical Equipment Condition Monitoring/Analysis

- bearings
- gearboxes
- steam traps
- engines
- fuel injectors
- pumps
- compressors
- butterfly valves
- belts/chains/pulleys

Electrical Inspection

- power transformers
- high voltage insulators
- ignition systems
- alternators
- switches/relays
- power boxes
- electric motor brushes/bushings
- sparkplugs

Pressure & Vacuum Leak Detection

- pipelines/hoses/fittings
- underground pipelines
- steam traps and lines
- condensers
- heat exchanger tubes
- exhaust/intake manifolds
- pumps
- cylinder head gaskets
- internal cylinder leaks
- check/control valves
- valve stems
- pneumatic control boxes

Non-Pressurized Vessel Integrity Testing

- storage tanks
- pipelines and hoses
- door/window seals
- bulkhead/hatch seals
- gaskets & fittings
- check/control valves
- exhaust
- clean rooms
- railroad cars
- airplane cabins
- automobile truck cabs
- Pitot static tubes

SPECIFICATIONS

Dimensions	UL101 Receiver: 222 mm x 32 mm x 32 mm (8.75 in x 1.26 in x 1.26 in) UT2000 Transmitter: 105 mm x 32 mm x 32 mm (4.125 in x 1.26 in x 1.26 in)
Weight (including battery)	UL101 Receiver: 330g (11.6oz) UT2000 Transmitter: 175g (6.2 oz)
Housing	Extruded aluminum Wall thickness 2.3 mm (.09in)
Power Supply	9V Alkaline battery
Battery Life	UL101 Receiver: > 45 hours UT2000 Transmitter: > 300 hours
Distance of Receiver Reception	Up to 150 feet
Receiver Sensitivity	> -65 dB
Receiver Dynamic Range	120 dB
Receiver Input Frequency	40 kHz +/- 1
Receiver Output Frequency	300 Hz - 2,000 Hz (to Headset/Analog Meter)
Receiver Displays	Analog Meter/Battery Level Indicator, LED Power Indicator
Operating Temperature Range	-20°C (-4°F) to +54°C (+130°F)
Controls	UL101 Receiver: On/Off Potentiometer Switch Gain Switch Meter Selector Switch UT2000 Transmitter: On/Off Switch
Headset	Industrial Grade 600 Ohm Impedance; 21 -24 dB Ext. Noise Attenuation
Warranty	1 year parts & labor Extended warranty available

The CTRL UL101 meets and exceeds ASTM E1002-93 and ASME requirements for leak detection.

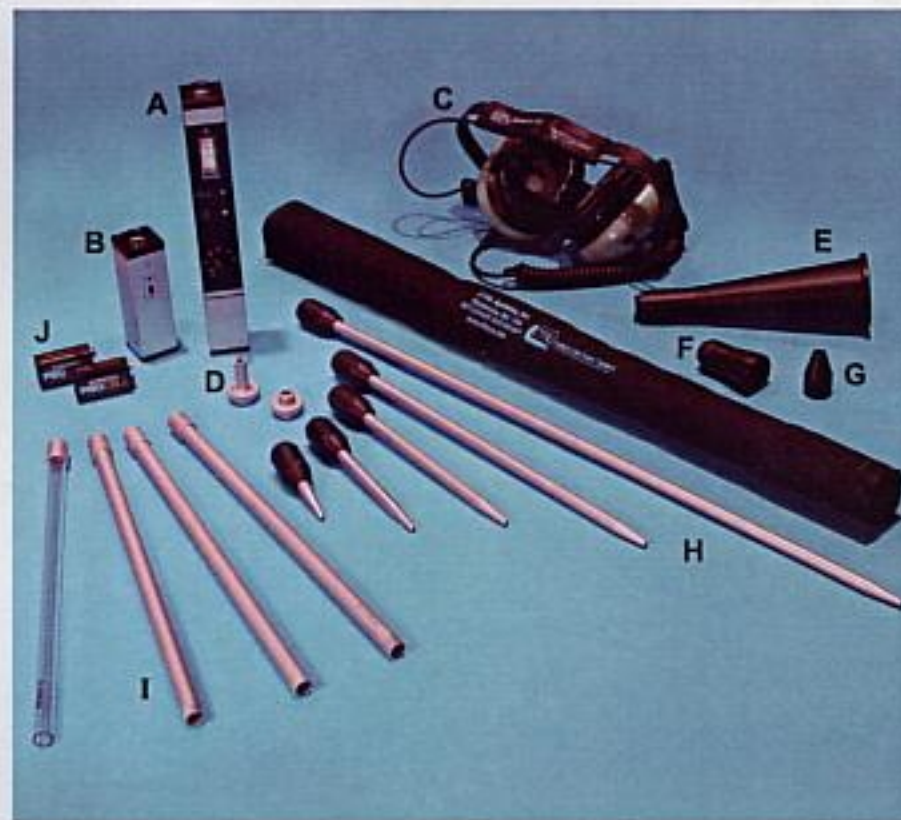
The UL101 Headset meets and exceeds ANSI specifications and OSHA standards.

Part Number:

000031 (Standard); 000033 (Intrinsically Safe)

Government/Military Part Number:

NSN 6635 01 183 8948

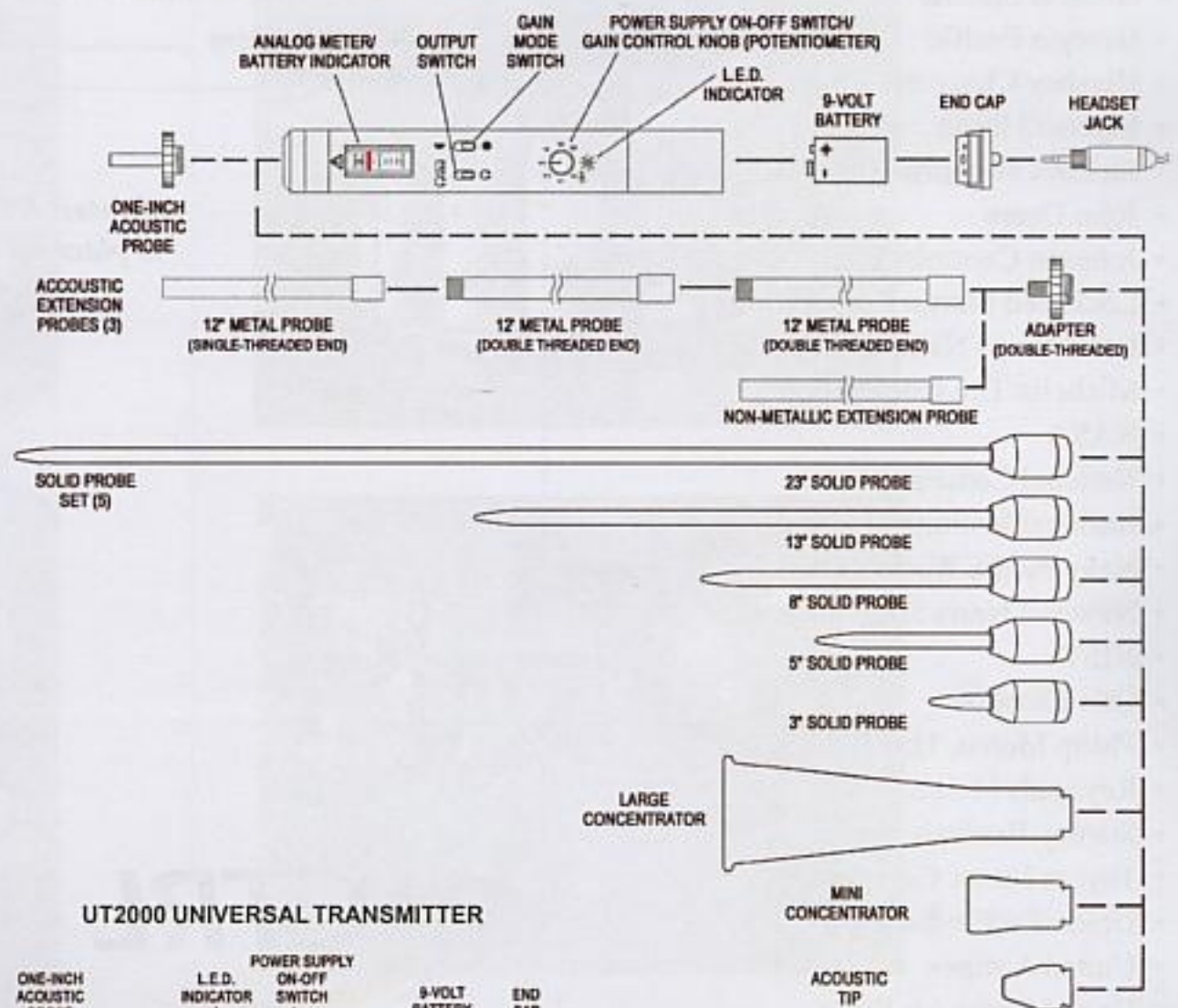


CTRL UL101 Components

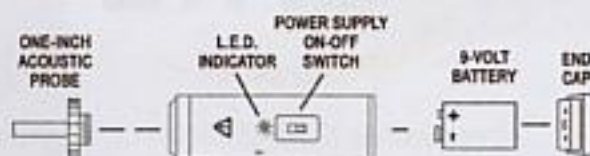
- A) UL101 Receiver
 - B) UT2000 Transmitter
 - C) Industrial Grade Headset
 - D) One-Inch Acoustic Probe
 - E) Large Concentrator
 - F) Mini-Concentrator
 - G) Acoustic Tip
 - H) Set of 5 Solid Probes w/ Wrap
 - I) Acoustic Extension Probe Set
 - J) 9-volt Alkaline Batteries (2)
- Carrying Case (not shown)
Training CD (not shown)
Operator's Manual (not shown)

Free 1-1/2 day training at CTRL's training center (Westminster, MD) is also included with the purchase of each CTRL UL101 full inspection system

UL101 RECEIVER AND ATTACHMENTS



UT2000 UNIVERSAL TRANSMITTER



Companies that have enjoyed the many benefits of the CTRL UL101:

- Alban Engine Power Systems
- Allegheny Power
- Archer Daniels Midland Co.
- Baltimore Gas & Electric
- BAM Racing Team
- Bates Container
- Bausch & Lomb, Inc.
- Boeing Company
- BorgWarner Automotive
- Busch Gardens Virginia
- Cargill Inc.
- Caterpillar
- Contra Costa Newspapers
- Daikin America
- Delta Airlines
- Detroit Edison
- Dominion Resources
- Dow Chemical
- Exxon Mobil
- Ford Motor Company
- Frito Lay
- General Electric
- Georgia Pacific
- Hershey Chocolate USA
- Ingersoll Rand
- Jackson Memorial Hospital
- John Deere
- Johnson Controls, Inc.
- Lockheed Martin Corporation
- Los Alamos National Lab.
- Michelin Tire Corporation
- NASA
- National Container
- National Institute of Health
- Navy Public Works
- Newport News Shipbuilding
- NIST
- Otis Elevator
- Philip Morris, USA
- Reynolds Metals
- Stanley Bostitch, Inc.
- Toyota Motor Corporation
- Union Pacific Railroad
- United Airlines
- United States Air Force
- United States Army
- United States Navy
- US Airways
- Washington Metro Area Transit Authority
- Whirlpool Corporation

Ordering Information & System Options

CTRL UL101 System Options:

Standard	P/N: 000031 *
Intrinsically Safe	P/N: 000033
Air Audit System, Standard	P/N: 000036
Air Audit System, Intrinsically Safe	P/N: 000037

* Govt/Military NSN: 6635 01 183 8948

Headset Style:

Over-the-Head (OTH) - Standard style	P/N: 025010
Behind-the-Head (BTH) - For use with hardhat	P/N: 025005

Accessories:

Belt Pouch	P/N: 005035
Receiver Jacket	P/N: 005055
Gel Ear Seals	P/N: 005007
Defect Tags, Red	P/N: 030085
Defect Tags, Orange	P/N: 030086
Defect Tags, Yellow	P/N: 030087
A/C Adaptor & Power Supply	P/N: 000046
Y-Splitter	P/N: 005045

Recommended Complimentary Products:

SoundCTRL System	P/N: 000010
PowerBeam 300	P/N: 007005

Contact CTRL Systems Headquarters today to place an order or to request an quotation.

DELTA-3N KFT.
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www.delta3n.hu

MSZ EN ISO 9001:2001
Tanúsítvány: MS 0324-173



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