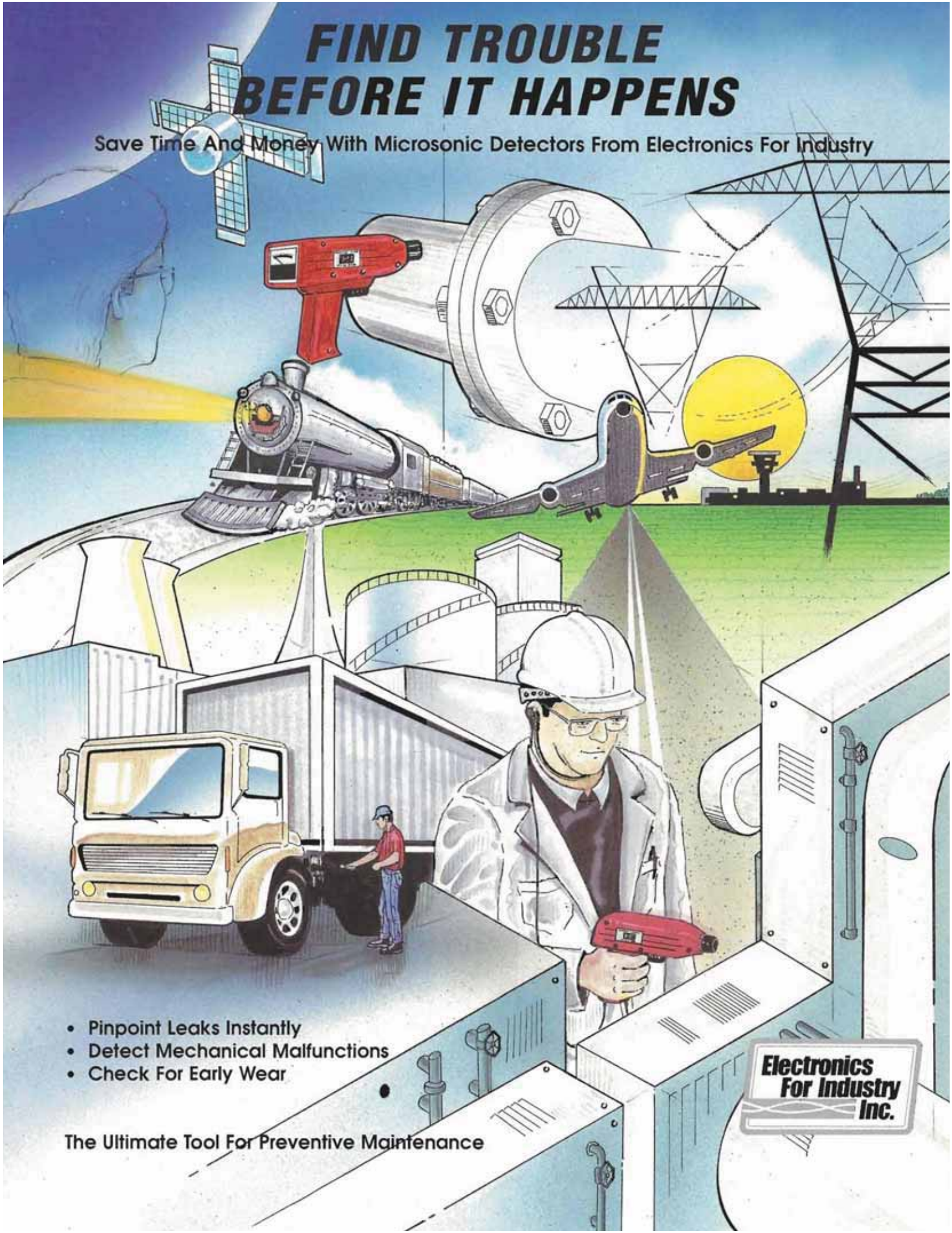


FIND TROUBLE BEFORE IT HAPPENS

Save Time And Money With Microsonic Detectors From Electronics For Industry



- Pinpoint Leaks Instantly
- Detect Mechanical Malfunctions
- Check For Early Wear

The Ultimate Tool For Preventive Maintenance

**Electronics
For Industry
Inc.**

TO FIX IT, YOU HAVE TO FIND IT!

The W-7 does it all. Pinpoints leaks of any gas or vapor, in any pressure or vacuum system, locates mechanical wear and more.

Work Smart With Microsonic Technology

Now you can work faster, more efficiently and more economically! E.F.I.'s microsonic detectors streamline hundreds of maintenance tasks. Find leaks and mechanical malfunctions before they can cause a problem. Hard to find leaks are quickly pinpointed with these unique tools. Check parts for wear without disassembling the machinery. The applications are virtually unlimited!

Save Time And Money

What does an hour of downtime cost your company? Probably far more than our top-of-the-line microsonic detector! If you work for yourself, how many times have you wished for a fast, simple way to solve your problem; whether it's finding a leak, checking a valve or locating a faulty component?

With a microsonic detector from Electronics For Industry, you can!

How Does It Work?

These remarkable tools detect the ultrasound that is created by leaks or wear. This very high frequency sound -- far above the range of human hearing -- can be generated in many different ways. For instance, it can be caused by the passage of air or a gas through an orifice under pressure or vacuum, or by the friction of machinery which is beginning to wear.

Ultrasound is "heard" by our detectors and converted to a sound you can hear. Ordinary sounds such as background noise, talking or machinery -- no matter how loud -- are not detected. But leaks and machinery wear are easily pinpointed even in otherwise deafening background sound levels.

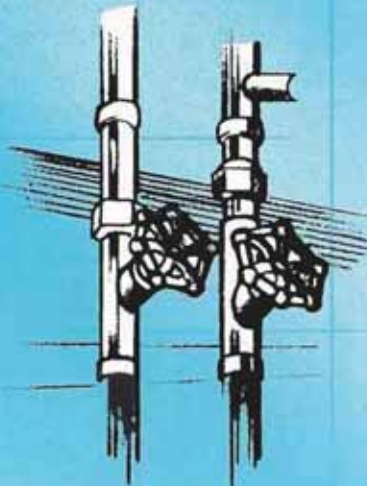
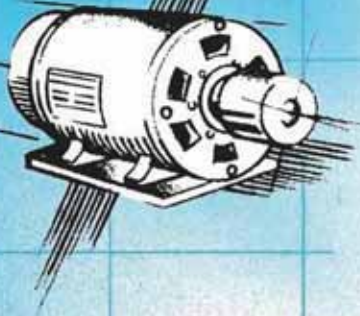
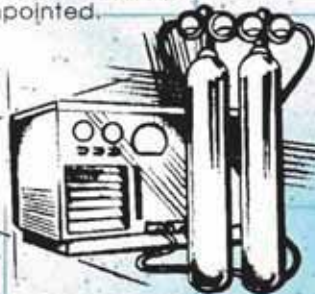
Easy To Use

Leaks can be found just by sweeping the microsonic detector over the area to be checked. Mechanical wear is heard by using the detector in the stethoscope mode. Ultrasound is highly directional and attenuated within a very short range. So when an Electronics For Industry ultrasonic detector picks up ultrasound, it can quickly direct you to its source.



With the microsonic stethoscope, you can listen to the sounds of internal machinery, conveyor belts, bearings, engines, and valves. Virtually every mechanical device emits a normal sound under normal operating conditions. Under abnormal conditions, like wear or excessive strain, it changes to an abnormal sound. Our equipment allows you to "hear" the change long before it becomes apparent, long before a mechanical breakdown occurs.

If there's no pressure or vacuum, a leak point can still be found using E.F.I.'s microsonic tone generator. This unique device emits a tone, filling the area with high frequency energy, which will escape through any opening. This tone is then "heard" by the detector. Using the generator and detector combination, leaks in containers, auto or truck bodies, cargo holds, vaults, welds, etc., can be quickly pinpointed.



HUNDREDS OF APPLICATIONS

THE OLD WAY

THE E.F.I. WAY

Find Leaks In Pressure Systems

Apply soap solution to suspected leak. Watch for bubbles to appear. Repeat on entire system or wait for leak to enlarge enough to become obvious.

Scan microsonic detector along piping, valves, etc., until leak is found.

Find Leaks In Vacuum Systems

Generally, vacuum systems require replacing of parts until leak disappears.

Scan microsonic detector along piping, valves, flanges, etc., until leak is found.

Detect Mechanical Wear

Disassemble machinery, visually inspect and use micrometer to check critical dimensions. Repeat process on each component.

Use stethoscope to perform periodic comparative readings. Change in sound indicates wear.

Find Bad Stream Traps

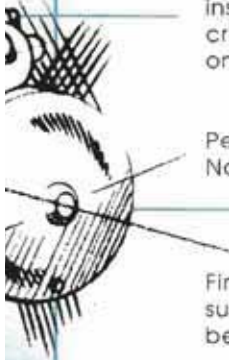
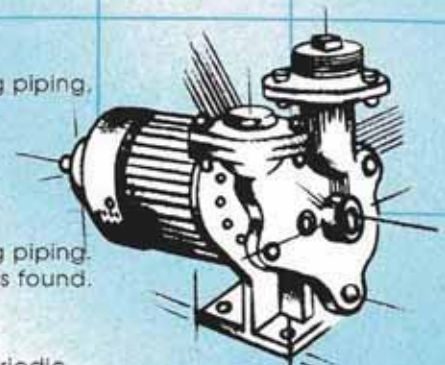
Periodic replacement is required. No reliable test was available.

Use Microsonic detector to listen to trap for malfunction. Detection of bad trap is immediately apparent.

Find Leaks In Car And Truck Bodies

Find big leaks by spraying water over suspected leak. Small leaks may never be found.

Put tone generator inside. Run microsonic detector along seams, around windows, doors, weather-stripping, etc.. Tone indicates source of wind noise or water leak.



EI-300 Microsonic Stethoscope

Listens "inside" machinery while it is running. Built in selectivity screens out normally audible sounds allowing only the ultrasound created by wearing or defective parts to be heard. Detect contact ultrasound produced by mechanical malfunction, bypassing valves, bad steam traps, hydraulic leaks, cylinder friction, bad bearings, gears, drive-chains, and worn shafts.

COMES WITH: EI-300 Stethoscope Body, 4" probe, deluxe or lightweight headset, battery, and carrying case.



EI-500 Microsonic Detector

Pinpoint leaks in pressure or vacuum systems, even in noisy plants. This compact tool converts ultrasound to audible sound heard through the headset. It does not "hear" normally audible sounds, is directional, and sensitive enough to locate the smallest leaks. Locate leaks in compressed air systems, air brakes, air conditioner and refrigerator systems, pressurized cables, air tanks, bottled gas systems, aircraft pneumatic and oxygen systems, electrical corona arcing and sparking, valve leaks, and even poorly sealed bottle caps.

COMES WITH: EI-500 Body, deluxe or lightweight headset, battery, and carrying case.



W-5 Microsonic Detection Kit

Does everything the EI-500 does **AND** pinpoints leaks where no pressure or vacuum is available. The ultrasonic generator is placed inside. Ultrasound will not penetrate a solid but will find its way through any opening and can then be detected. The rubber focusing extension is used as an aid to pinpointing and for getting at hard to reach places.

COMES WITH: EI-500 Body, ultrasonic tone generator, rubber focusing extension, deluxe or lightweight headset, batteries, and carrying case.



W-7 Microsonic Detection Kit

This versatile kit incorporates all of the advantages of the EI-300, EI-500 and W-5 with the added features of a large meter for comparative visual reading, interchangeable plug-in modules and dual sensitivity ranges. The pistol-type design of this tool makes it both easy and convenient to use.

COMES WITH: Pistol-type detector body, leak detection plug-in module, stethoscope plug-in module with 4" probe, rubber focusing extension, ultrasonic tone generator, deluxe or lightweight headset, batteries, and carrying case.



ACCESSORIES

PK-1 Probe Kit

Stethoscope extension probe kit extends lengths of the probe to 12", 23" or 32". Great for reaching hard to get at places, or for work in dangerous or hot areas.



DH-1 Deluxe Headset

Earmuff type headset covers ears for use in high ambient noise areas.



Units intrinsically safe Class 1, Division 1, Groups B, C & D.

EI-701L Pistol Leak Detector

Consists of Pistol Style Detector, Leak Detection Module and Deluxe Headset.



H-1 Holster for Pistol Type Detector

(Pistol shown for information only, pistol not included.)



MSM-1 Magnetic Stethoscope Module

Transducer assembly is held to ferrous machine housing by rare earth magnet to allow hands free listening and data recording or bearing greasing.



EI-701S Pistol Stethoscope

Consists of Pistol Style Detector, Stethoscope Module and Deluxe Headset.



E.F.I.'s PRODUCTS IN TODAY'S INDUSTRY!

Both Fortune 500 Companies and small business alike rely on microsonic detectors from Electronics For Industry ...

Automotive, Trucking, Heavy Equipment

Acura
Alpha-Romeo
Buick Motor Div.

Cadillac Motor Co.
Caterpillar Tractor
Chrysler Corp.

Fiat
Ford Motor Co.
General Motors

Hertz Trucks
Int'l Harvester
Monon Trailer Co.

Porsche Motor Co.
Ryder Trucks

Aviation, Airlines

Boeing Co.

Cessna
Lockheed

McDonnell Douglas
N.A.S.A.

Northeast Airlines
Piper Aircraft

Alaska Airlines

Broadcast, Communications

Bell Telephone Labs
Canadian Broadcast

King Broadcasting
Sunbeam Television

WGN Broadcasting

WKBS Television

Chemical, Gas, Oil

American Cyanamid
Ashland Chemical
Atlantic Richfield

Detrex Chemical
Dotmar Chemicals
Dow Chemical

Exetas Gas Co.
Humble Oil Co.
Clark Oil/Refinery

Monsanto Chemical
Ozona Gas
Crew Chemical

Standard Oil
Tenneco Oil Co.

Food Manufacturers

American Sugar Co.
Brach Candy Co.
C&D Sugar Co.

Coca-Cola
Kellogg Co.

Kraft
Libby

Nestle Co.
Pepsi Cola

Savannah Sugar
Sealtest Foods

General Industrial

3M Company
Ampex Corp.
Argonne Labs
Armco Steel Corp.
Borg Warner

Cartier Mining
Cleveland Gear
Crest Research
E.I. DuPont

General Electric
I.B.M.
Inland Steel
L.J. Harris Pie Co.

Midstates Steel
Peabody Coal Co.
Reynolds Aluminum
Seattle Times

Sherwin Williams
Timken Bearings
Westinghouse
Youngstown Sheet

Government Affiliates

Clark Co. Schools
City of Danville, VA
Florida Hwy. Comm.

N.A.S.A.
Northwestern Univ.
Panama Canal Co.

Philadelphia, PA
St. Louis, MO

U.S. Army
U.S. Air Force

U.S. Navy
Univ. of Carolina

Marine

Avondale Shipyards

British Petroleum

Brown & Root

Eastern Steamship

Medical

C.I.B.A. Pharm. Co.

Mercy Hospital

St. Francis Hospital

Walter Reed Hospital

Utilities

Commonwealth Edison
Florida Power & Light
Fl. Pierce Power

Houston Power
Ill. Bell Telephone
Mont./ Dak. Util.

New Orleans P.S.
New York Power
N. Indiana P.S.

N. Natural Gas
Pacific N.W. Bell
Southern Bell

Southwestern Bell
Union Electric Co.
Western Power & Gas

Quality!

If it's from ELECTRONICS FOR INDUSTRY, you can rely on it! For over 35 years our products have proven themselves in the work-place. Our quality control procedures, coupled with our line testing, continues to provide an almost non-existent failure rate.

Warranty!

Microsonic detectors from ELECTRONICS FOR INDUSTRY are manufactured with high-quality components and workmanship. All parts and workmanship (except battery), are warranted against failure for one year from the date of purchase.



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