

Microsonic Stethoscope

Type EI-300 / EI-701S



MODEL EI-300



MODEL EI-701S

Spots Faulty mechanical components before trouble starts.

The **EI-300** Microsonic Stethoscope is your most valuable preventive maintenance tool. You can spot engine and machine wear trouble spots before they become serious... through the use of ultrasound.

Wherever there is wear or mechanical malfunction, the defective area produces sound or noise in the high frequency "ultrasound" range long before this sound or noise can be heard by the unaided human ear. By the time you hear the sounds of wear or malfunction, a part can be badly damaged and can cause damage to other parts as well.

Using the **EI-300** as a periodic maintenance tool, you can spot worn shafts, bearings, check engine valves while the motor is running, exhaust valves, gears and hydraulic systems. Trouble is caught at an early stage, so you can schedule repairs at your convenience, avoid costly breakdowns and keep your shop running as top efficiency.

The **EI-300** has built-in selectivity to screen out the undesired, normally audible sounds. You can hear only the ultrasound created by wearing or defective parts. Machinery that is functioning properly has its own "normal" sound. For example, a bearing in good condition and properly lubricated produces a soft whirring sound in the earphones.

Lack of lubrication causes a scraping sound that can be heard.

Flat spots or nicks on the bearings or race will cause a grating, grinding or clicking sound, heard by the EI-300 as ultrasound, long before real damage occurs.

The **EI-701S** allows you to listen "inside" machinery while it is running. The detector 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: The pistol detector body, Stethoscope plug-in module, Deluxe Headset and Battery.

For Steam Traps...

If a steam trap malfunctions and remains open, there will be great loss of steam...and money. If a trap should fail to open, the load will not operate. If one trap fails to open on one bank of heating jackets, there will be an enormous loss of efficiency - without the stoppage being obvious.

The EI-300 Microsonic Stethoscope is the answer to these problems. You can listen to the steamline near the trap and "hear" the flow. If no sound is heard, trap is stuck shut. If sound is heard all the time, the trap is stuck open. The EI-300 signals the need for quick preventive maintenance.

For Hydraulic Systems...

Partially blocked or bypassing valves in high pressure hydraulic systems can be difficult and costly to locate. They can be easily detected by the EI-300. Just touch the probe to the suspected fitting, valve or power cylinder. Since hydraulic systems are under very high pressure, the intensity of sound produced by an internal leak is extremely high.

Specification:

Size	:	Stethoscope 1" x 9" long Probe tip - 3/16" dia / 4" long
Weight	:	Probe and Headset - 8 ounces
Power	:	9 - volt battery (self-contained) (Battery life in excess of six months eight-hour duty cycle)
Headset	:	Lightweight, plug-in type
Carrying Case	:	Durable, with molded interior