



SPECTROLINE[®]
Marksman[™]
Ultrasonic Diagnostic Tool

**Listen to
Problems
Before
They Become
Breakdowns!**



***Ideal for
detecting:***

- Compressed air leaks
- Vacuum leaks
- Gear and bearing wear
- Natural gas and propane tank leaks
- Electrical discharge
- Refrigerant leaks
- Gas and liquid turbulence
- Seal and gasket integrity ...and more

***Converts and amplifies ultrasonic sound into
audible "natural" sound for accurate diagnosis***

- Ultra-sensitive electronic circuitry detects sounds significantly beyond the range of the human ear
- Self-adjusting AGC (Automatic Gain Control) circuitry *automatically* compensates for fluctuations in signal strength
- 10 bar LED intensity indicator helps pinpoint the exact problem source
- Precision-engineered air and contact probes optimize receiver versatility
- Factory calibrated for optimal performance; does not require recalibration
- Special emitter produces ultrasonic pulses to help receiver check for faulty seals, gaskets or weather stripping in doors, windows, ductwork and other non-pressurized enclosures
- Rugged carrying case with contoured foam padding for safe storage and transportation
- Receiver and emitter powered by standard 9-volt alkaline batteries (included)

Perfect for preventive maintenance —

The ultrasonic range of the Marksman can actually pick up the sound of a blinking eye! This super-sensitive capability makes it one of most effective early warning systems to detect defects and malfunctions *before* they result in major breakdowns. It's an ideal diagnostic tool that dramatically reduces equipment downtime and maintenance costs.

Highly accurate — The Marksman uses a two-tiered process to ensure accurate diagnosis. First, it converts inaudible ultrasonic sound into audible sound using a process known as heterodyning. Then, the unit's Sound Signature Technology™ fine-tunes the audible sound into the "natural" sound emitted by the defect itself. In addition, a 10 bar LED display indicates the intensity of incoming signals from the problem source to ensure error-free diagnosis.



MDE-1000 Marksman Master Kit
Also available: MD-500 (same as MDE-1000, but *without* emitter)

Extremely user friendly — The unit's Automatic Gain Control (AGC) circuitry *automatically* adjusts to optimize signal sensitivity during every inspection. This simplifies operation and helps the user focus on the problem at hand — no need to play around with multiple knobs and buttons. Just turn on the Marksman and it's ready to go!

Designed for optimal performance — The MDE-1000 Master Kit comes with an ultrasonic emitter and two probes that are specially designed to enhance the Marksman's versatility. The emitter, which transmits ultrasonic pulses to the receiver, tests for faulty seals, gaskets or weather stripping in doors, windows, ductwork and other non-pressurized enclosures. The 12" air probe extends the receiver's reach and helps isolate a leak among multiple suspect areas. The contact probe, when touched to an external surface, picks up and transmits ultrasonic sound from defective internal components *without disassembly*.

Portable — The Marksman, with its solid-state circuitry, is compact and lightweight. The receiver, weighing just 10 ounces, is perfect for prolonged, fatigue-free inspections.

Specifications

Models	MDE-1000 Master Kit MD-500 (same as MDE-1000, less emitter)
Shipping weight	MDE-1000 Master Kit, 3.7 lbs. (1.7 kg) MD-500, 3.4 lbs. (1.5 kg)
Housing	Chemical resistant nylon with protective boot
Battery life	Approx. 20 hours
Power requirement	One standard 9-volt alkaline battery each for receiver and emitter
Power consumption	27mA (typical)
Frequency response	36,000 - 44,000 Hz
Circuitry	Solid state
Headphones	Full-sized, noise attenuating

Replacement Parts

Component	Part #
Ultrasonic emitter	UE-500
Headphones	124107
Air probe	124108
Contact probe	124109
Case with foam insert	124110

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