



# cable pressure AirMAIL

System Studies Incorporated

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## What's In This Issue

### Ultrasonic Leak Detector Hydrogen Leak Detector

A little over a year ago, in AirMail bulletin #18, we dedicated the issue to a description of four of the important tools that every air pressure technician should carry on his or her truck. While those tools—the Flow Gauge, the Digital Pressure Gauge, and the Direction of Flow Indicator—are essential for working air pressure, we now offer two additional tools that can give you added capability when leak locating: the Part No. 9800-3750 Ultrasonic Leak Detector and the Part No. 9800-3755 Hydrogen Leak Detector. These new tools can make easy work of tracking pressurized cable leaks that are especially difficult, if not impossible, to find using other tools and methods.

Included in this bulletin is a brief explanation of each tool. If you would like more detailed information about the products, click the appropriate link to the on-line data sheet in each of the explanations below. Of course, if you prefer getting a personalized response to any questions or concerns you may have about the ultrasonic and hydrogen leak detectors, such as pricing information and operating tips and suggestions, please contact the Field Engineer in your area, or call the System Studies offices toll free on 800-247-8255.

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## Ultrasonic Leak Detector

System Studies' **Ultrasonic Leak Detector (Part No. 9800-3750)** is a specialized tool to assist in your leak locating efforts. This tool makes it possible to detect small leaks that emit an ultrasonic signal—the type of sound that cannot be heard by the unaided human ear. These leaks are created when air or gas under pressure is forced through a small opening, such as a cable sheath or splice case. When the ultrasonic leak detector is directed toward a potential leak, it converts the ultrasonic sound emission to a frequency range that can be heard through standard headphones.

Our 9800-3750 Ultrasonic Leak Detector is shipped with a plastic carrying case that includes the ultrasonic leak detector and protective nylon cover (for field use), a pair of headphones and a male/male jack cable, a parabola (or cone) to help isolate the ultrasonic signal, and a tubular sensor horn extension.

The detector measures 7.3 in (185.4 mm) long by 2.5 in (63.5 mm) wide by 1.0 in (25.4 mm) thick, and it is powered by a standard 9-volt battery. Approximate weight of the unit is 6.3 oz (180 grams).



## Ultrasonic Leak Detector

Another of the more recent additions to the growing list of leak locating tools offered by System Studies is our **Part No. 9800-3755 Hydrogen Leak Detector**. This relatively small, light-weight instrument provides you with additional flexibility when looking for those "impossible to find" pressurized cable leaks. The tool is used in conjunction with a commercial-grade nitrogen/hydrogen tracer gas mix to "sniff out" leaks in localized sections of pressurized cable.

Originally designed for use in the automotive industry, this tracer gas sensing instrument is also ideally suited for pressurized cable maintenance. It has the ability to detect, with exceptional speed and accuracy, the small, extremely light hydrogen molecules that travel inside the pressurized cable from the tracer gas input location to the leak. When tracer gas is detected along the surface of a cable sheath or splice case, the Hydrogen Leak Detector provides both a visual and audible signal that gas is escaping from the cable—allowing you to accurately verify the location of the leak.

The detector measures hydrogen concentrations in the ambient air from 0 to 300 parts per million. Its response time is a remarkable one to two seconds, and it provides five hours of operation on a fully charged set of batteries. Battery charger, ear plug and jack, wrist strap, plastic carrying case, and complete operating instructions are provided with shipment.



See our on-line product data sheet for additional information at [www.airtalk.com](http://www.airtalk.com).