

ULTRASONIC LEAK DETECTOR

Locate costly compressed air leaks with optimum designed unit

WHAT ARE THEY - REASONS TO USE

The Flex.US Ultrasonic Leak Detector is a hand held, high quality compressed air leak detection system that has all the features necessary for flexible use in finding costly air leaks.

The FLEX.US ultrasonic leak detector kit comes with the FLEX.US unit, carrying case, and manual and utilizes two AA alkaline batteries (included). The FLEX.US is a complete kit - the high quality flexible sensor is mounted on the end of a flexible steel pipe so the ultrasonic sound can access hard to reach areas. The unit converts the ultrasonic noise of a leak into a sound humans can hear (hissing sound) and not just some beeping sound or LED display that may not distinguish a leak sound from other phenomenon.

The headset has excellent noise attenuation for use in the noisiest of environments.

A rugged carrying case protects your FLEX.US when not in use.

The FLEX.US is a solid tool - built to last, it is easy to use and will provide many years of service.



The Flex.US Ultrasonic Leak Detector has the sensor on the end of a flexible pipe to allow detection of leaks in difficult to reach areas.



The Ultrasonic Leak Detector comes in a handy carrying case to store the unit and quality headphones. The headphones are durable and of high quality to cut out extraneous noise that would make it difficult to detect leaks.



Above shows use of quality headphones and flexible pipe with sensor to get to a difficult spot to find an air leak.

HOW ULTRASOUND WORKS

Ultrasound is beyond human hearing capacity. Most humans hear frequencies from 2- Hz to 20 kHz. Ultrasonic sound is beyond this range at 20 kHz to 100 kHz. The FLEX.US unit converts the ultrasonic sound to an audible range to humans. Compressed air leaks generate this range of ultrasound “noise” that the unit picks up.

WHY OUR ULTRASONIC LEAK DETECTOR DOES THE JOB AND WHY OTHERS MAY NOT

REMEMBER:

The better the system, the more leaks you find and the more money you save! Always beware of cheap ultrasonic leak detectors that just may not do the job. Ours does the job because of the following:

FIRST:

Look at the headphones. If they are an open walkman style, these will be useless in a noisy plant because they offer absolutely NO protection from the ambient noise which can be at high levels! (After all, why else would you need an ultrasonic lead detector!) So how can you hear the leak in the headphone without protection from the ambient audible noise in the plant? Our headphones completely cover the ear providing 130 dBA hearing protection. Some competitive units would not be useable in a typical factory where hearing protection is mandatory because the inspector would have to insert ear plugs in his ears. Our headphones don't require this.



Quality head phones block out plant noise to make it easy to listen for, and locate an air leak with the Flex.US system.

SECOND:

Look at frequency range. Our frequency is centered at 38.4 kHz with an open window of +/- 2 kHz. By having a bandwidth this narrow we are able to eliminate other sources of ultrasonic parasite noise. It is absolutely critical that you amplify just this narrow single harmonic band of sound. Some detectors amplify every frequency from 20 kHz up to 100 kHz. That's because the manufacturer did not include any low pass filters. This also affects the output signal in the headphones. It also affects the directionality of the device. At low frequency it is much more difficult to know where the sound is coming from because the wavelength is larger and more reflective.

THIRD:

Extension tubes. For accessing tight areas some firms suggest using a hollow tube (tubular extension) with their system. Ultrasound will not travel well into this tube so the equipment will be less sensitive in hard to reach areas. If the tube is 6" long for example, that means the sensor is always a minimum of 6" away from the source. The Nex Flow™ system sensor is at the end of the flexible extension so the sensor is "always" directly exposed to the leak making our equipment much more sensitive. If more sensitive of course you will more easily detect the leak (one you may not even find with another system.)

THE BETTER THE SYSTEM THE MORE LEAKS YOU FIND THE MORE YOU SAVE.

ULTRASONIC LEAK DETECTOR

PART NO.	DESCRIPTION
90061	ULTRASONIC LEAK DETECTOR SYSTEM

Nex Flow® aims to be the lowest cost w here possible but NOT at the expense of sacrificing quality.