

Leakage Detector DLD

DLD ultrasonic leakage detector allows maintenance personnel to confirm a diagnosis on the spot by being able to clearly discriminate among various equipment sounds.

Product description:

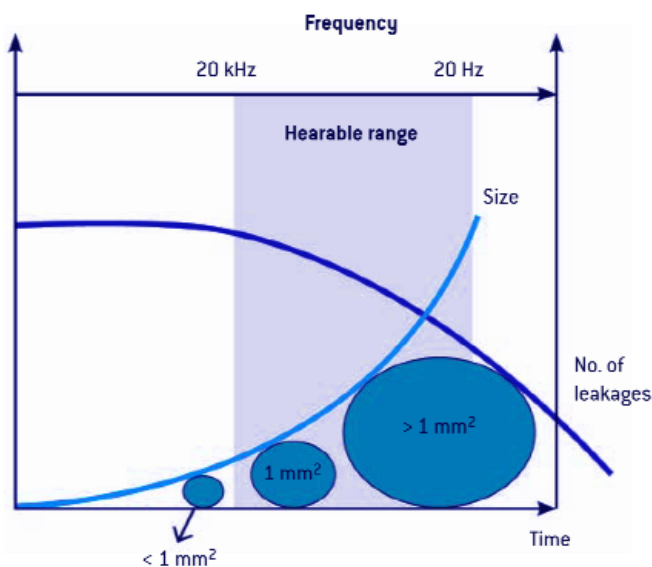
If gases escape through leaks ultrasonic noises are generated. By means of the DLD leakages can be detected in the ultrasonic range even from distances of several meters. DLD transforms the inaudible signals into a frequency which can be identified by means of the provided sound-proof headset. In depressurized systems an ultrasonic tone generator can be used of which the signal travels through smallest openings.

Cost saving

In Germany 60,000 compressed air plants use 14,000,000,000 kWh electrical energy per year. 15 to 20 % could be easily saved (Peter Radgen, Fraunhofer Institut, Karlsruhe). Most of these costs are caused by leakages in the compressed air system. The air "escapes" unused.

1 leak with a diameter of 1 mm = 270 EUR/year.

The DLD will be payed off after 4 leakages



- hole size increases over time
- the human ear can only hear leakages which are bigger than 1 mm² at 7 bar
- until they are noticed 10 small leaks may cause a loss of 7.000 Euro/ year



The integrated laser facilitates the detection of leaks

Applications:

Leak detection in

- Compressed air lines, gas, vapour and vacuum plants
- Refrigerating plants
- Door seals

Set DLD consists of:

- DLD leakage detector
- Ultrasonic sensor
- Sound-proof head set
- Focus tube with focus tip
- Cable for ultrasonic sensor
- Battery charger
- Transport case



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Technical Data

Leakage Detector DLD	
Working frequency:	40 kHz \pm 2 kHz
Connections:	1) 4-pole connection for headset and battery charger 2) 3.5 mm stereo socket for sensor and cable connection
Laser:	wave length: 655...660 nm output power 0,4...0,5 mW
Power supply:	internal NiMH rech. battery
Operation duration:	approx. 6 hours without laser, approx. 4 hours with laser
Charging time:	approx. 1.5 hours
Operating temperature:	0 to 40°C
Storage temperature:	-10 to 50°C
Telescope:	3 x 120 cm

Accessories (not included in the set)
Ultrasonic tone generator
Telescope bar 3 x 120 cm



Focus tube

with focus tip avoids influence by ambient noise and enables precise locating of leakages



Holding device

of DLD at the telescope bar



Telescope bar

helps locating leakages in pipelines up to a height of 6 m