



LD 300 leak detector

If gases escape through leaks ultrasonic noises are generated. By means of the LD 300 leakages can be detected in the ultrasonic range even from distances of several meters. LD 300 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.



Sound-proof headset enables leak detection in extremely noisy environments



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



Holding device of LD 300 at the telescope bar

Applications:

Leak detection in:

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

The **telescope bar** helps locating leakages in pipelines up to a height of 6 m

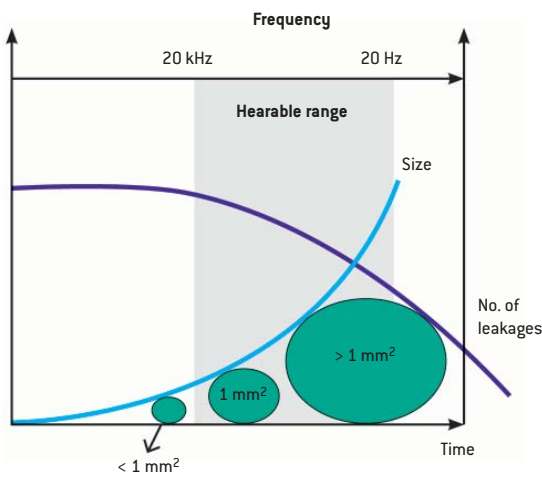




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Cost saving

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 LD 300 will be payed off after 4 leakages.**



- hole size increases over time
- the human ear can only hear leakages which are bigger than 1 mm^2 at 7 bar
- until they are noticed 10 small leaks may cause a loss of 7,000 Euro/year



The integrated laser facilitates the the detection of leaks.



| Description | Order no. |
|--|------------------|
| Set LD 300 leak detector | 0601 0103 |
| consisting of: | |
| LD 300 leak detector | 0560 0102 |
| Ultrasonic sensor | 0605 0001 |
| Sound-proof headset | 0554 0102 |
| Focus tube with focus tip | 0530 0101 |
| Cable for ultrasonic sensor | 0553 0101 |
| Battery charger | 0554 0001 |
| Transport case | 0554 0101 |
| Accessories, not included in the set: | |
| Ultrasonic tone generator | 0554 0103 |
| Telescope bar 3 x 120 cm | 0530 0102 |

Technical data LD 300

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

Operating duration: approx. 6 hours without laser, approx. 4 hours with laser

Charging time: approx. 1.5 hours

Operating temp.: 0 to 40 °C

Storage temp.: -10 to 50 °C

Telescope: 3 x 120 cm