

# DATASHEET

Leakage detector  
leakguard **comfort**





## Leakage detector leakguard comfort

When pressurized gases escape from leaks in piping systems (e.g. leaking screw connections, corrosion, etc.), noises in the ultrasonic range are generated. With leakguard comfort, even the smallest leaks, which are inaudible to the human ear and invisible due to their size, can be detected from a distance of several meters. The leakguard comfort converts ultrasound, which is inaudible to the human ear, into audible frequencies. With the comfortable, soundproof headphones, these sounds can be heard even in noisy environments. The leakguard comfort impresses with its high-quality sensor technology and improved support in detecting leaks. With the help of an integrated laser pointer, which serves as a target locator, the leak can be localized more precisely.

Leakage losses (empirical values) in production plants:

Good design and regular maintenance of the compressed air network : 5 -10 % of the compressed air requirement  
non-maintained compressed air networks : 30-50 % of the compressed air requirement

Hole diameter in mm in relation to the entire compressed air network	Air loss in l/s with 6 bar	Energy loss in KWh	Energy loss in €
1	1,24	2,891	260,17
3	11,14	26.017	2.341,55
5	30,95	72.270	6.504,3
10	123	289.080	26.017,2

The use of a specially designed sound funnel achieves better focusing of the sound waves.

This funnel acts like a directional microphone that bundles ultrasonic waves and thus improves the acoustic behavior. The special design of the acoustic funnel does not hinder the use of the laser pointer. A handy ultrasonic transmitter is available for detecting leaks in unpressurized systems. The transmitter is positioned so that the sound can penetrate the pipe system. The ultrasonic signal penetrates the smallest openings, which can then be detected with the leakguard comfort.



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### Advantages:

- Robustness and low weight ensure fatigue-free use in industrial environments
- Improved leak detection with the acoustic funnel
- Modern lithium-ion battery with high capacity, external charger
- Operating time min. 10 h
- Simple operation via membrane keypad
- Adjustable sensitivity

### Technical data:

Operating frequency:	40 kHz +/- 2 kHz
Connections:	3,5 mm jack plug for headphones. Power supply socket for connecting an external charger
Laser:	Wavelength: 630...660 nm Output power: <y 1 mW (laser class 2)
Operating time:	> 10 h (continuous operation)
Charging time:	max. 4 h
Operating temperature:	-5 to +50 °C
Storage temperature:	-20 to +60 °C