

DATASHEET

Leakage detector
leakguard premium





Leakage detector leakguard premium

The leakguard premium uses 30 MEMS microphones to calculate and visualize the ultrasound image. The device also makes inaudible ultrasound audible.

Advantage over classic leak detectors:

Visual representation of the leakage in the live image, even in noisy environments during production

To determine the leakage rate, the user aims the laser directly at the leakage. Leakage, laser and red circle must lie on top of each other in the image. In this way, the leakage rate in l/min or cfm and the costs in €/year are determined exactly.

The distance is measured automatically.

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



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Advantages:

- Enormous time saving compared to classic leak detectors
- 30 MEMS microphones create the image of the leaks
- Brightness sensor activates LEDs in dark environments
- Unique laser distance measurement for automatic cost determination
- Determine your leakage (l/min or cfm) and the savings potential (€/year).
Freely adjustable currency
- Take pictures of your leaks
- Paperless documentation: Enter on site in the device: Define the location of the leak, remedial measures and replacement part
- Create a report in accordance with ISO 50001
- Fatigue-free working - ergonomic one-handed operation - low weight

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: < 1 mW (laser class 2)
Display:	3,5" touchscreen
Interface:	USB interface
Data logger:	16 GB SD memory card (100 million values)
Power supply:	Internally rechargeable Li-Ion batteries, approx. 9 h continuous operation, 4 h charging time
Operating temperature:	-5 bis +50 °C
EMC:	DIN EN 61326
Auto level:	Automatically adjusts the sensitivity to the environment and reliably masks ambient noise
Sensitivity:	min. 0.1 l/min at 6 bar, 5 m distance, approx. 1 €/year compressed air costs
Weight without headphones:	540 grams