

PRO  
air

# DATASHEET

Leakage detector leakguardPRO



## Leakage detector leakguardPRO

In a study by the Fraunhofer Institute, leakage elimination in compressed air networks was attributed the greatest savings potential.

A regular inspection of the compressed air network with the ultrasonic detector is worthwhile! Even an opening of only 3 mm cross-section causes costs of approx. 2,300.00 € per year.

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

When compressed air is emitted, the sound spectrum extends into the ultrasonic range, which the human ear can no longer detect.

Ultrasound is directional and can be localized with pinpoint accuracy even from a great distance using the appropriate technology.





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### **Product description:**

Using a PIEZO directional microphone, the leakguardPRO detects the ultrasonic noise of the smallest leaks (down to less than  $\varnothing$  0.1 mm) and converts the signal into a frequency spectrum audible to the human ear.

The optical LED bar display is also used for precise evaluation of the signal transmitter. It is particularly useful for use in noisy environments, such as noisy production facilities.

To limit loud signal peaks, such as air flowing out of switching valves, an electronic amplitude limiter is installed to protect hearing.

Both the sensitivity and the headphone volume can be adjusted separately.

The ultrasonic center frequency can also be adjusted, allowing the user to adapt the subjective sound impression to their own perception.

The integrated laser pointer allows the leakage to be localized with pinpoint accuracy.

The device is compact (168 x 61 x 25 mm) and very light, weighing only 270 g. The ergonomically shaped aluminum housing sits comfortably in the hand and allows fatigue-free working for hours.

The built-in rechargeable battery provides over 15 hours of uninterrupted operation when fully charged. Recharging is possible in just 2 hours using the quick charger included in the scope of delivery.

### **Scope of delivery:**

- 1 x PAD 2408 - Detector with high sensitivity for quick detection of leaks
- 1 x PAK 2408 – Headphones
- 1 x PAS 2408 – directional probe (integrated)
- 1 x integrated laser pointer for precise leak detection
- On / Off function
- LED bar display
- Power supply via rechargeable battery (no need to change batteries)
- Quick battery charger
- informative operating instructions
- Complete in carrying case