

Industrial Electronics



LEAKSHOOTER
**Leakage Detecting Device with Digital
Camera for Compressed Air Ring Mains
and Pneumatic Systems**



Hilger u. Kern

General Information

The new technology is based on an ultrasonic detector combined with a digital camera. The detection via ultrasonic sound is the best and easiest way to identify leakages in compressed air systems and vacuum. Each air flow, which flows on an angle, causes a ultrasonic signal with a frequency band of approximately 40 kHz.

LEAKSHOOTER is the world's first leak detection device equipped with a digital camera. Sensors on the device detect non audible air leaks with a distance of up to 20 m and then show them on a digital screen. The cross-section of a leakage with 3 bar pressure can be 0.1 mm (1/10). Leaks are visible in real-time on the colour screen, either in yellow (weak signal) or red (more intensive signal).

In addition, the sound level is continuously measured in db RMS as maximum value and also shown in colours and numbers on the bar display.

The situation (picture, date, time and size of the leak) can be stored digitally on a PC (up to 1,000 pictures). Therefore leaks are documented in an optimal way - software is included in the scope of delivery.

Scope of Delivery

- LEAKSHOOTER
- Transport case out of shock-resistant ABS
- Headphones (with volume control)
- Software (LEAKSHOOTER VIEWER for a PC)
- **Optional:** Flexible sensorprobe LKS Flexsensor with gooseneck 400 mm and cable 1,3 m for detection of leaks with difficult access



Benefits of LEAKSHOOTER

- Control of installations, pipes and connections without contact
- Visibility of leaks in real-time
- Immediate recording of leaks including exact location and time
- Data storage possible on a PC

Applications

- Systems of compressed air, oxygen, nitrogen and steam
- Vacuum systems
- Electrical partial discharge, corona, surface leaks
- Joint sealing, leak testing of vessels and cabins under pressure (e.g. in high-speed and multiple-unit trains, aircraft cabins, etc.)

Technical Data

| | |
|-----------------------|---|
| Camera | 640x480 Pixel |
| Screen | 3.5 " Color LCD |
| Measured Values | RMS dB and max. RMS |
| Storage | 1,000 stored and transferred pictures |
| Data Connection | USB cable |
| Sensor | Ultrasonic-piezo open, 120 db with 30 cm distance 0 db = 2 x 1/10.000 µbar |
| Adjustable Parameters | Carrier frequency 40 kHz +/-1 kHz, adjustable between 34 and 46 kHz |
| Power Supply | Lithium-ion battery |
| Battery Duration Time | approx. 6 hours |
| Operating Temperature | -10 °C up to +50 °C |
| Weight | 580 g 3900 g with case, accessories |
| Dimensions (LxWxH) | 70 x 100 x 230 mm |



No leakage

Black bar in the green area

No noise through headphones



Low leakage

Black bar in the yellow area

Quiet noise through headphones



Severe leakage

Black bar in the red area

Loud noise through headphones



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