

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

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 = $2 \times 1/10.000 \mu$ bar
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

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 multipleunit trains, aircraft cabins, etc.)



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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