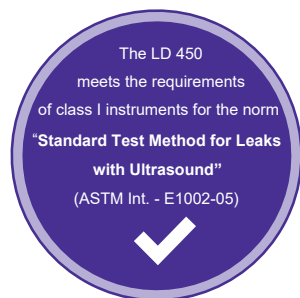


## Leak detector LD 450

If gases escape through leaks in pressurized pipe systems (e.g. non-tight screwed connections, corrosions and so on), ultrasonic noises are generated. By means of LD 450, even the smallest leakages which cannot be heard by the human ear and which are not visible due to their size can be detected even from distances of

several meters. LD 450 transforms the inaudible signals into a frequency which can be identified by human beings. By means of the comfortable sound-proof headset, these noises can be detected even in extremely noisy environments. The LD 450 leak detector is the advancement of the proven LD 300 and LD 400 and it impresses with its

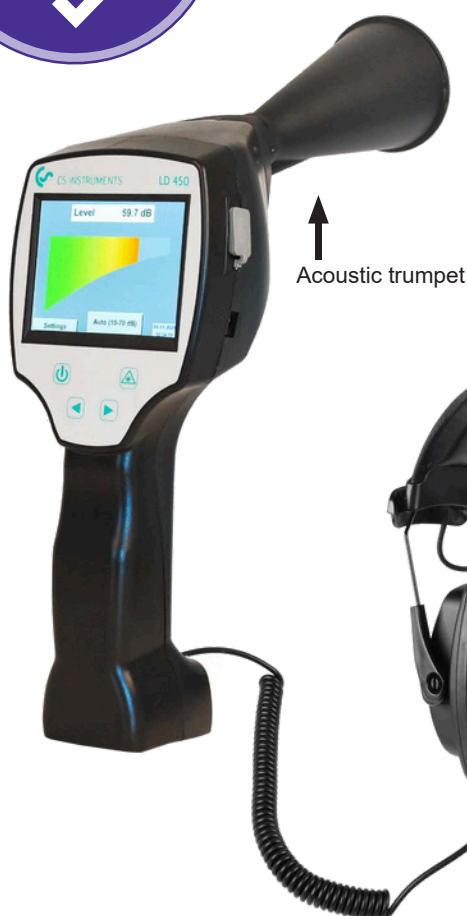
significantly refined sensor technology and its improved support in the tracing of leaks. By means of the integrated laser pointer, which serves for target heading, the leak can be localised more accurately.



### Applications

Leak detection on:

- compressed air, gas and vacuum systems
- Door seals



↑  
Acoustic trumpet



**LD 450** with straightening tube and straightening tip for accurate detection.

### Sound-proof headset:

Enables leak detection in an extremely loud environment

### Costs per year

Pressure	Size of leakage - diameter (mm)					
	0.5 mm	1.0 mm	1.5 mm	2.0 mm	2.5 mm	3.0 mm
3 bar 4	€90	€361	€812	€1,444	€2,256	€3,248
bar 5 bar	€113	€451	€1,015	€1,805	€2,820	€4,061
6 bar 7	€135	€541	€1,218	€2,166	€3,384	€4,873
bar 8 bar	€158	€632	€1,421	€2,527	€3,948	€5,685
	€180	€722	€1,624	€2,888	€4,512	€6,497
	€203	€812	€1,827	€3,248	€5,076	€7,309

Table: Leakage costs within one year in case of operation 24 h/365 days, calculated with compressed air costs of 1.9 ct/Nm<sup>3</sup>.

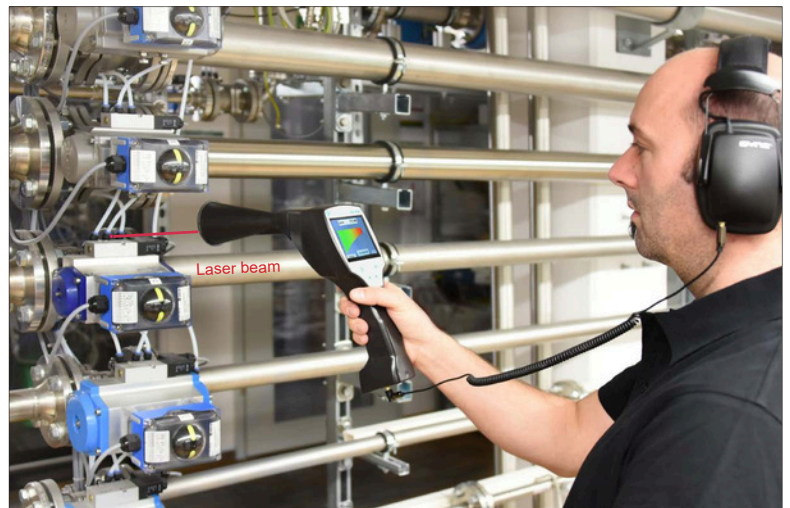
Through the use of a specially designed acoustic trumpet, a better bundling of the sound waves is achieved. This trumpet microphone acts like a bundle of directional waves and thus improves the acoustic behavior. Due to the special design of the acoustic

trumpet, the use of the laser pointer is not hindered. Leak test: A handy ultrasonic transmitter is available for detecting leaks in pressureless systems. The transmitter is positioned so that the sound can enter the pipe system. The ultrasonic signal penetrates the small-

est openings, which can then be detected with the LD 450.

## Special features

- Robustness and low weight ensure fatigue-free use in industrial environments
- Improved detection of leakages with the acoustic trumpet
- Modern Li-Ion battery with high capacity, external charger
- Minimum operating time 10 h
- Easy operation via membrane keypad
- Adjustable sensitivity



**LD 450** is available either as standalone device or in a complete set. The set includes a robust impact-proof transportation case which contains all necessary components and accessories.

## DESCRIPTION

### Set LD 450 consisting of:

LD 450 leak detector for compressed air systems  
Transport case  
Sound-proof headset  
Focus tube with focus tip  
AC adapter plug  
Acoustic trumpet

### Accessories not included in the set:

Ultrasonic transmitter

## ORDER NO.

0601 0204  
0560 0204  
0554 0106  
0554 0104  
0530 0104  
0554 0009  
0530 0109  
0554 0103

## TECHNICAL DATA LD 450

<b>Operating frequency:</b>	40 kHz $\pm$ 2 kHz
<b>Connections:</b>	3.5 mm stereo jack for headset. Power supply socket for connecting an external charger
<b>Laser:</b>	Wavelength: 630...660 nm Output power: < 1 mW (laser class 2)
<b>Operating time:</b>	>10 h
<b>Charging time:</b>	max. 4h
<b>Operating temperature:</b>	-5 °C to 50 °C
<b>Storage temperature:</b>	-20 °C to +60 °C



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