

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.



Costs per year								
	Size of leakage - diameter (mm)							
Pressure	0.5 mm	1.0 mm	1.5 mm	2.0 mm	2.5 mm	3.0 mm		
3 bar	€90	€361	€812	€1,444	€2,256	€3,248		
4 bar	€113	€451	€1,015	€1,805	€2,820	€4,061		
5 bar	€135	€541	€1,218	€2,166	€3,384	€4,873		
6 bar	€158	€632	€1,421	€2,527	€3,948	€5,685		
7 bar	€180	€722	€1,624	€2,888	€4,512	€6,497		
8 bar	€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/Nm³.

Through the use of a specially designed acoustic trumpet, a better bundling of the sound waves is achieved. This trumpet acts like a directional microphone, which bundles ultrasonic waves and thus improves the acoustic behavior.

Due to the special design of the acoustic

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

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



TECHNICAL DATA LD 450



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.

		Operating frequency:	40 kHz ± 2 kHz	
DESCRIPTION	Connections:	3.5 mm stereo jack for headset. Power supply socket for		
Set LD 450 consisting of:	0601 0204		connecting an external	
LD 450 leak detector for compressed air systems	0560 0204		charger	
Transport case	0554 0106	Laser:	Wavelength: 630660 nm	
Sound-proof headset	0554 0104		Output power: < 1 mW (laser class 2)	
Focus tube with focus tip	0530 0104			
AC adapter plug	0554 0009	Operating time:	>10 h	
Acoustic trumpet	0530 0109	Charging time:	max. 4h	
Accessories not included in the set:		Operating temperature:	-5 °C to 50 °C	
Ultrasonic transmitter	0554 0103	Storage temperature:	-20 °C to +60 °C	