



## Leak detector LD 400 - Highly sensitive leak detector

If gases escape through leaks in piping systems (e.g. untight screwed connections, corrossions and so on) ultrasonic noises are generated. By means of **LD 400** even the smallest leakages which cannot be heard by the human ear and

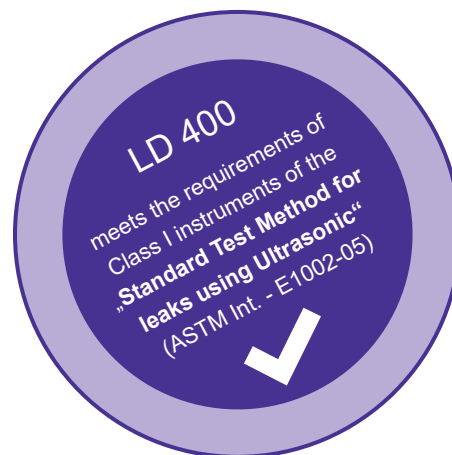
which are not visible due to their size can be detected even from distances of several meters. **LD 400** transforms the inaudible signals into a frequency which can be identified. By means of the comfortable sound-proof headset these noises can be realized even in extremely noisy environments.

The **LD 400 leak detector** is the advancement of the proven LD 300 and it convinces by its obviously 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 localized more accurately.



Acoustic trumpet

Sound-proof headset enables leak detection in extremely noisy environments



### Annual energy costs caused by leakages

Hole Ø (mm)	Loss in air		Energy loss		Costs p.a.	
	at 6 bar (l/s)	at 12 bar (l/s)	at 6 bar kWh	at 12 bar kWh	at 6 bar €	at 12 bar €
1	1.2	1.8	0.3	1.0	144	480
3	11.1	20.8	3.1	12.7	1.488	6.096
5	30.9	58.5	8.3	33.7	3.984	16.176
10	123.8	235.2	33.0	132.0	15.840	63.360

Source: [www.druckluft.effizient.de](http://www.druckluft.effizient.de) (\*) kWh x 0.06 € x 8.000 Bh/a



LD 400 with focus tube and focus tip for precise locating

### Applications

#### Leak detection in:

- Compressed air lines, gas, vapour and vacuum plants
- Refrigerating plants
- Door seals



## LD 400 leak detector

Due to a particularly designed acoustic trumpet a better focusing of the acoustic waves is achieved. This acoustic trumpet acts like a directional microphone while interfering ambient noises are cushioned and the accurate localization of the leakages is eased even in areas which

are difficult to access. Due to the special design of the acoustic trumpet the use of the laser pointer is not obstructed. A handy ultrasonic transmitter is available for detecting leaks in depressurized systems. The transmitter is positioned in a

way that the sound can access the piping system. The ultrasonic signal passes through smallest holes which then can be detected by means of **LD 400**. Even very small leaks at hatches, doors and windows can be realized.

### Special features

- Robustness and the little weight ensure a fatigue-proof use in industrial environments
- Improved detection of leaks with optional acoustic trumpet
- Modern lithium-ion battery with high capacity, external recharger
- Minimum operating time 10 h
- Easy operation via keypad



**LD 400** 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	Order No.
<b>Set LD 400</b> consisting of:	<b>0601 0104</b>
LD 400 Leak detector	0560 0104
Transport case	0554 0106
Sound-proof headset	0554 0104
Focus tube with focus tip	0530 0104
Battery charger	0554 0009
Acoustic trumpet	0530 0109
<b>Accessory, not included in the set:</b>	
Ultrasonic tone generator	0554 0103

### Technical data LD 400

<b>Working frequency:</b>	40 kHz $\pm$ 2 kHz
<b>Connections:</b>	3.5 mm stereo jack for headset Power supply socket for connecting a external recharger
<b>Laser:</b>	wave length: 645...660 nm output power: < 1 nW (laser class 2)
<b>Operating duration:</b>	10 hours
<b>Charging time:</b>	approx. 1.5 hours
<b>Operating temp.:</b>	0 to 40 °C
<b>Storage temp.:</b>	-10 °C to 50 °C