

# Leak detector

## testo Sensor LD basic ultrasonic detector kit

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Improved localization of leaks thanks to sound funnel

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Robustness and a low weight ensure non-tiring use in industrial environments

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Continuous operation for 10 hrs

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Easy operation via touchscreen

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Modern high-capacity Lithium ion rechargeable battery, external charger

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Adjustable sensitivity

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The testo Sensor LD basic ultrasonic detector kit meets the requirements for class I instruments of the "Standard Test Method for Leaks Using Ultrasonics" standard (ASTM Int. E100205).

Pressurized gases escaping from leaks in pipe systems (e.g. due to leaky screw connections, corrosion, etc.) cause noises in the ultrasonic range. With the testo Sensor LD basic, even the smallest leaks, which are not audible to the human ear, and due to their size are not visible, can already be localized from several metres away. The testo Sensor LD basic converts the inaudible ultrasound into audible frequencies. These sounds can be perceived even in noisy environments with the sound-proof headphones that are comfortable to wear.

The leak can be more accurately localized thanks to the integrated laser pointer which acts as a sighter. The testo Sensor LD basic leak detector is the further development of the proven predecessor model testo Sensor LD and convinces with a once again significantly refined sensor technology and improved support in detecting leaks.

## Technical data

### testo Sensor LD basic ultrasonic detector kit

Included in the scope of delivery:

- testo Sensor LD basic leak detector
- Transport case
- Sound-proof headphones
- Directional tube and tip
- Mains adapter
- Spiral cable for connecting the ultrasonic sensor, length 2 m (extended)



Order no. 8900 0401

#### Costs per year

| Pres-<br>sure | Leakage size – diameter (mm) |        |         |         |         |         |
|---------------|------------------------------|--------|---------|---------|---------|---------|
|               | 0.5 mm                       | 1.0 mm | 1.5 mm  | 2.0 mm  | 2.5 mm  | 3.0 mm  |
| <b>3 bar</b>  | € 90                         | € 361  | € 812   | € 1,444 | € 2,256 | € 3,248 |
| <b>4 bar</b>  | € 113                        | € 451  | € 1,015 | € 1,805 | € 2,820 | € 4,061 |
| <b>5 bar</b>  | € 135                        | € 541  | € 1,218 | € 2,166 | € 3,384 | € 4,873 |
| <b>6 bar</b>  | € 158                        | € 632  | € 1,421 | € 2,527 | € 3,948 | € 5,685 |
| <b>7 bar</b>  | € 180                        | € 722  | € 1,624 | € 2,888 | € 4,512 | € 6,497 |
| <b>8 bar</b>  | € 203                        | € 812  | € 1,827 | € 3,248 | € 5,076 | € 7,309 |

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

|                                   |                                                                                                                                          |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Working frequency                 | 40 kHz ±2 kHz                                                                                                                            |
| Connections                       | - 3.5 mm jack plug for headphones, mains unit socket for connecting an external charger<br>- USB port                                    |
| Laser                             | Wavelength: 645 to 660 nm Output power: < 1 mW (laser class 2)                                                                           |
| Display                           | 3.5" TFT touch panel, transmissive                                                                                                       |
| Interface                         | USB for software update                                                                                                                  |
| Data loggers                      | 2 GB SD memory card                                                                                                                      |
| Operating time                    | > 10 hrs in continuous operation                                                                                                         |
| Charging time                     | Approx. 4 hrs (internal Li-ion rechargeable batteries)                                                                                   |
| Operating temperature             | -5 to +50 °C                                                                                                                             |
| Storage temperature               | -20 to +60 °C                                                                                                                            |
| Standard                          | Meets the requirements for class 1 instruments of the "Standard Test Method for Leaks Using Ultrasonics" standard (ASTM Int. - E1002-05) |
| EMC                               | DIN EN 61326                                                                                                                             |
| Auto level                        | Automatically adjusts sensitivity to the surroundings and reliably blocks out ambient sounds                                             |
| Sensitivity                       | Min.: 0.1 l/min at 6 bar, 5 m distance, approx. 1 EUR/year compressed air costs                                                          |
| Permitted degree of contamination | 2                                                                                                                                        |
| Protection class                  | IP20                                                                                                                                     |

Subject to change, including technical modifications.

2980 XXXX/msp/08.2022

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