Compressed air - vacuum - gases





LD 500/510 leak detector with camera – indicates leakage rate in I/min and costs in €



	costs per year						
pressure	Leak size - Diameter (mm)						
	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/Nm^3 .



Transmit the leak details via USB to your desktop software or via Bluetooth to your App



Create an ISO 50001 report



Seek the leak the whole day (9 hours)



LD 500/510 is a consistent advancement

The new leak meters LD 500/510 with integrated camera and leakage calculation are ideal measuring instruments which help to find and document even smallest leakages (0.1 l/min corresponds to approx. 1 € p. a.) easily even in far distances.

LD 510 is the worldwide first leak meter with an additional freely assignable sensor input for all CS sensors. In addition to the leakage measurement and detection also all necessary measurements with regards to dew point, flow, pressure, and temperature ... can be carried out.





The noise-proof headset enables the leak detection also in EXTREMELY loud ambient. The ambient noise will be faded out, the leakage (inaudible ultrasonic sound) will be transformed to an audible signal. The laser grants an exact locating.

Accessories



Acoustic trumpet bundles the acoustic waves of smallest leakages, disturbing ambient noise will be eliminated



Focus tube with focus tip for precise locating of smallest leakages in narrow areas



Optionally available:

Gooseneck enables a positioning of the leakage on the spot – even in case of hardly accessible locations.



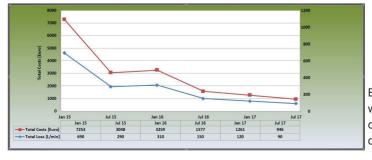
If the leakage is found and stored the following data are also stored in the LD 500 and will be available after the export in the software resp. The CS LeakageApp CS Leak Reporter for issuing a report:

Leak Tags in hardcopies for documentation on-site

- Photo of the leakage point
- Date / time
- · Company name / department / machine
- · Size of the leakage in liters/min (unit selectable)
- · Costs of the leakage per year in € (currency selectable)

Detailed reports can be issued via PC software or CS Leakage-App CS Leak Reporter, which can be placed at the disposal of the operators of compressed air systems resp. the head of the respective department.

The report can be issued for the whole company or for each department and it documents the detected leakages easily and clearly. Due to the summation at the end of the report it is easy to get an overview on the whole leakage amount in liters/min as well as the total leakage costs per year.



By means of the History Report the continuous improvements which have been reached during several months/years due to consequent leakage detection and leakage elimination can be documented.



Description	Order no.			
Set LD 500	0601 0105			
consisting of:				
LD 500 leak detector with acoustic trumpet, and integrated camera, 100 leak tags for marking the leakages on site	0560 0105			
Transportation case	0554 0106			
Sound-proof headset	0554 0104			
Focus tube with focus tip	0530 0104			
AC adapter plug	0554 0009			
Helix cable for connecting the ultrasonic sound sensor	020001402			
Set LD 510	0601 0106			
consisting of:				
LD 510 leak detector incl. acoustic trumpet, with integrated camera and additional input for external sensors, 100 leak tags for marking the leakages on site	0560 0106			
Transportation case	0554 0106			
Sound-proof headset	0554 0104			
Focus tube with focus tip	0530 0104			
AC adapter plug	0554 0009			
Helix cable for connecting the ultrasonic sound sensor	020001402			
Equipment:				
CS Leak Reporter – for detailed ISO 50001 reports. Gives an illustrated survey of the found leakages and their possible savings. Measures for elimination including status display can be defined for every leakage.	0554 0105			
Gooseneck for leakage detection at sites which are difficult to access	0530 0105			
Parabolic mirror for leak detection at long distances	0530 0106			
Ultrasonic probe for leak testing	0554 0103			
500 leak tags for marking the leakages on site	0530 0107			
Calibration:				
Recalibration LD 500/LD510 inclusice certificate	0560 3333			
Further sensors for connection to LD 510:				
FA 510 dew point sensor for mobile devices, -80+20°Ctd, incl. mobile measuring chamber, 5m connection cable and perforated protection cap	0699 1510			
Flow sensor VA 500, Max version (185 m/s) sensor length 220 mm, incl. 5 m connection cable	0695 1124			
Standard pressure sensor CS 16, 016 bar, \pm 1 % accuracy of f. s	0694 1886			
Differential pressure sensor 1.6 bar diff.	0694 3561			

LD 500/510				
Working frequency:	40 kHz ± 2 kHz			
Connections:	3.5 mm stereo jack for headset Power supply socket for connecting an external recharger			
Laser:	Wave length: 645660 nm Output power: < 1 mW (laser class 2)			
Display:	3,5" Touch screen			
Interface:	USB interface			
Data logger	2 GB SD memory card (100 million values)			
Power supply:	Internal rechargea- ble Li-lon batteries approx. 9 h conti- nuous operation, 4 h charging time			
Ambient temperature:	0+50°C			
EMG:	DIN EN 61326			
Auto level:	Adapts the sensitivity automatically to the environment and eli- minates the ambient noise reliably			

Technical data

Technical data external sensor input (only LD 510)

air costs

min: 0.1 l/min at 6 bar, 5 m distance, approx. 1€/year compressed

Sensitivity:

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Measuring range:	Please see external CS sensors
Accuracy:	Please see external CS sensors
Voltage supply:	Output voltage: 24 VDC ± 10% Output current: 120 mA in continuous

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