

LD 500/510 - Leak detector with camera – shows leakage rate in l/min and costs in €

The LD 500 meets the requirements of class I instruments for the norm "Standard Test Method for Leaks with Ultrasound" (ASTM Int. - E1002-05)



Find out your leak rate (l/min) and potential saving (€/year)



Find the smallest leaks at large distances



Auto level: Adapts the sensitivity automatically to the environment and eliminates the ambient noise reliably



Photograph leaking parts



Describe the leak and necessary actions



Transmit the leak details via USB to your desktop software



Create a report in accordance with ISO 50001



9 hours continuous operation possible

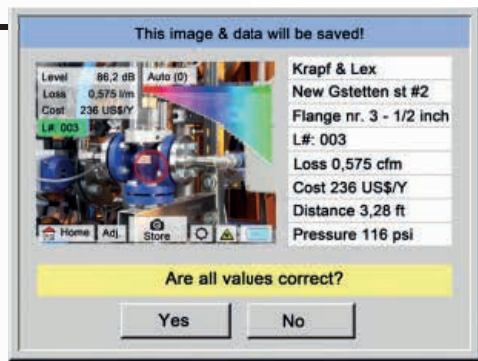
Costs per year						
Pressure	Size of leakage - diameter (mm)					
	0.5 mm	1.0 mm	1.5 mm	2.0 mm	2.5 mm	3.0 mm
3 bar	€90	€361	€812	€1,444	€2,256	€3,248
4 bar	€113	€451	€1,015	€1,805	€2,820	€4,061
5 bar	€135	€541	€1,218	€2,166	€3,384	€4,873
6 bar	€158	€632	€1,421	€2,527	€3,948	€5,685
7 bar	€180	€722	€1,624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

The LD 500/510 in detail

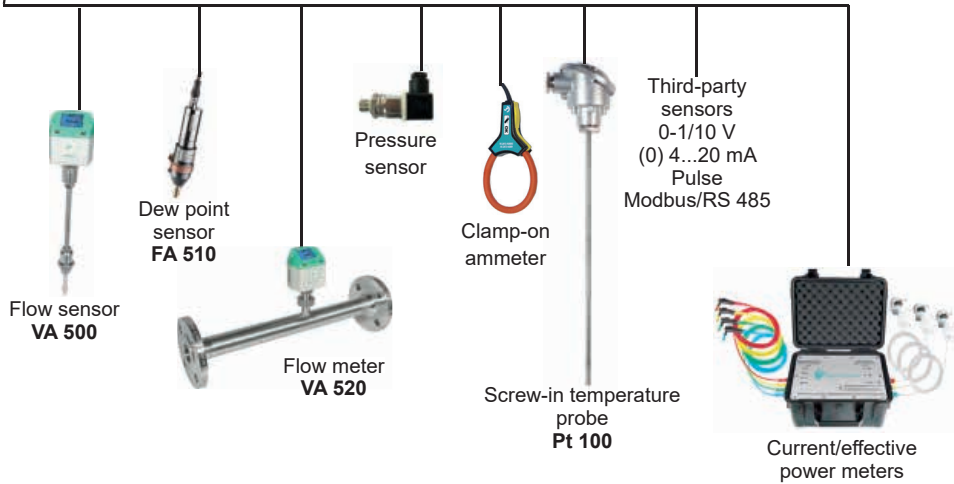
The new leak meters LD 500/LD 510 with integrated camera and leakage calculation are ideal measuring devices which help to find and document even the smallest leakages (0.1 l/min corresponds to approx. €1 per year) easily even at great distances.

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, all necessary measurements with regards to dew point, flow, pressure, and temperature ... can also be carried out.



Leak detection on:

- Compressed air, gas, vapour and vacuum systems
- Steam traps
- Seals



Accessories



Acoustic trumpet bundles the acoustic waves of the smallest leakages, strengthening the audible noise.



Straightening tube with straightening tip for precise detection of the smallest leakages in confined spaces.

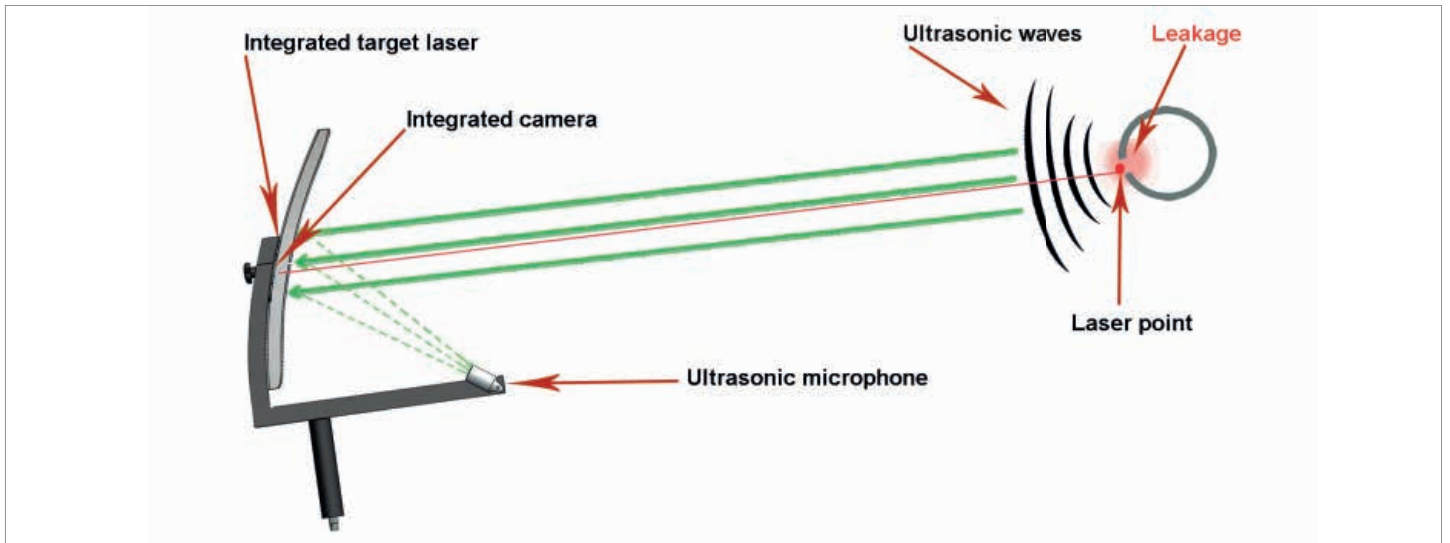


Optional: Gooseneck enables a precise detection of the leakage on in places that are difficult to access. Disturbing noise is cancelled out.



Parabolic mirror: For leak detection at great distances. Laser pointer and camera integrated.

Professional accessory – parabolic mirror



By bundling the ultrasonic waves in the parabolic mirror, even the smallest leaks of 0.8 l/min (approx. €8 p.a.) at a distance of up to 10 ... 15 m can be located with pinpoint precision (± 15 cm). The shape of the parabolic mirror ensures that only ultrasonic waves of the targeted leak are evaluated. Disturbing noise is reduced to a minimum.



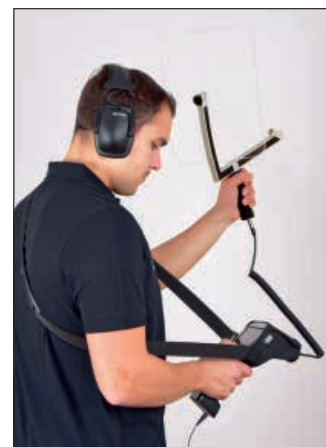
Accurate leak detection during operation with laser pointer and integrated camera



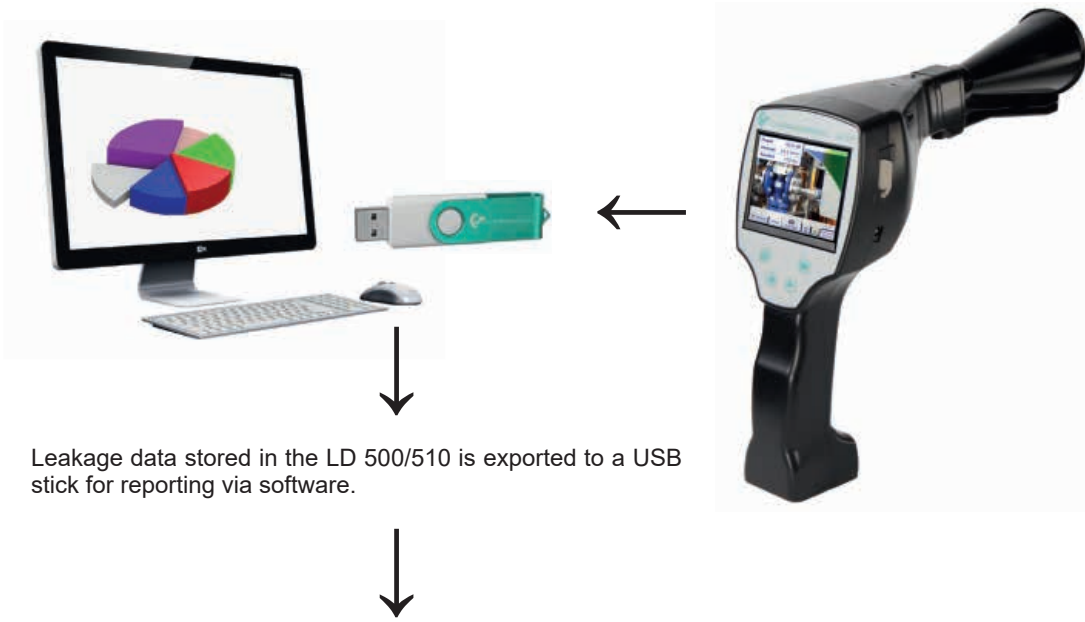
Checking high-voltage overhead lines for corona discharge



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



Holster with shoulder strap for LD 500/510



Leakage data stored in the LD 500/510 is exported to a USB stick for reporting via software.

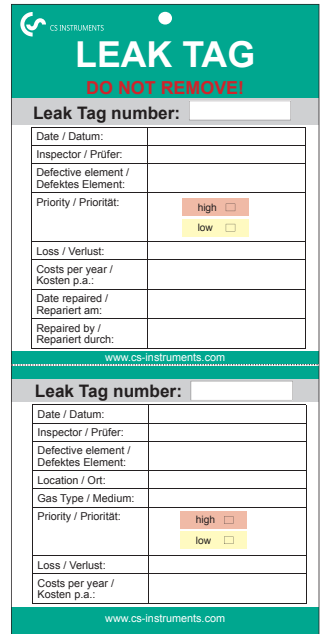
If the leakage is detected and stored, the following data are also stored in the LD 500/510 and will be available after the export to the CS Leak Reporter software to issue a report:

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

Detailed reports can be issued via PC software CS Leak Reporter, which can be made available to the operators of compressed air systems or 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 simply and clearly.

The totals at the end of the report provide a simple overview of the total leakage management in litres/min and the total leakage costs per year.



Leak Tags as hardcopies for documentation on-site.

Leakage report for ISO 50001 Audits

Image	Building Place	LeakTag	Date Time	Volume loss	Costs / Year	CO2 Tons / Year	Comment action measures	Responsible	Status	Priority
	Neuer	04/04/2018	10:04:00	10.040	105.38 €	0.59	SCALING	-	-	-
	Neuer	04-04-2018	11:31:19	21.528	214.86 €	1.18	Coupling	-	-	-
	Neuer	04-04-2018	11:52:51	2.967	29.83 €	0.17	Piping	-	-	-
<p>TOTALS: 105.38 € 1.94</p>										