Leakage measurement of gases and vacuum for maximized energy savings

Leak Check Pro 1/Pro 2 leak detector with camera – indicates leakage rate in l/min and costs in €

The Leak Check Pro meets the requirements of Class I „Standard Test Method forLeaks with ultrasound" (ASTM Int. - E1002-5)

- Find out your leak rate (l/min) and potential saving (€/year)
- Auto level: adapts the sensitivity automatically to the environment and eliminates the ambient noise reliably
- Describe the leak and necessary actions
- Create an ISO 50001 report
- Find the smallest leaks in far distance
- Photograph leaking parts
- Transmit the leak details via USB to your desktop software
- Seek the leak the whole day (9 hours)

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/Nm³.

pneumatech
Pure air . Pure gas

Leak Check Pro 1/ Pro 2 is a consistent advancement

The new leak meters Leak Check Pro 1/Pro 2 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 € per year) easily even in far distances.

Leak Check Pro 2 is the worldwide first leak meter with an additional freely assignable sensor input for all Pneumatech 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.

Leak detection at:

- Compressed air, gas, steam and vacuum sytems
- Steam Traps
- Seals
- Refrigeration systems

Acoustic trumpet

Camera

USB interface

Separate input for external Pneumatech sensors (only in case of Leak Check Pro 2)

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 positining of the leakage on the spot – even in case of hardly accessile locations.

Parabolic mirror
for leak detection at long distances.

Leakage files stored in Leak Check Pro are exported to a USB stick for issuing a report by software

If the leakage is found and stored the following data are also stored in the Leak Check Pro and will be available after the export in the Pneumatech Leak Reporter software for issuing a report:
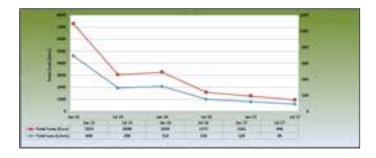
Leakage - report for ISO 50001 Audits

LEAK TAG
DO NOT REMOVE!

Leak Tag number:

Date / Datum:	
Inspector / Prüfer:	
Defective element / Defektes Element:	
Priority / Priorität:	high
	low
Costs per year / Kosten p.a.:	
Date repaired / Repariert am:	
Repaired by / Repariert durch:	

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Date / Datum:	
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Costs per year / Kosten p.a.:	
Date repaired / Repariert am:	
Repaired by / Repariert durch:	

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, 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 Leak Check Pro 1 consisting of:	**2255331710**
Leak Check Pro 1 leak detector with acoustic trumpet, and integrated camera, 100 leak tags for marking the leakages on site	2255332718
Transportation case	2255332719
Sound-proof headset	2255332720
Focus tube with focus tip	2255332721
AC adapter plug	2255332722
Helix cable for connecting the ultrasonic sound sensor	2255332723
Set Leak Check Pro 2 consisting of:	**2255332456**
Leak Check Pro 2 leak detector incl. acoustic trumpet, with integrated camera and additional input for external sensors, 100 leak tags for marking the leakages on site	2255332724
Transportation case	2255332719
Sound-proof headset	2255332720
Focus tube with focus tip	2255332721
AC adapter plug	2255332722
Helix cable for connecting the ultrasonic sound sensor	2255332723
Equipment:	
PMH 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.	2255332459
Gooseneck (600 mm) for leakage detection at sites which are difficult to access	2255332460
Gooseneck (1500 mm) for leakage dectiont at sites which are difficult to access	2255332729
Parabolic mirror for leak detection at long distances	2255332461
Ultrasonic tone generator for leak testing	2255332725
500 leak tags for marking the leakages on site	2255332726
Calibration:	
Recalibration Leak Check Pro 1/Pro 2 inclusive certificate	2255332727
Further sensors / accessories for connection to Leak Check Pro 2:	
PDP Sens dew point sensor for mobile devices, -80…+20°Ctd, incl. mobile measuring chamber, 5m connection cable and perforated protection cap	2255332526
Flow sensor Flow Check Universal, Max version (185 m/s) sensor length 220 mm, incl. 5 m connection cable	2255332524
Standard pressure sensor PMH 16, 0…16 bar, ± 1 % accuracy of f. s	2255330414
Differential pressure sensor 1.6 bar diff.	2255332486
Connection cable for pressure, temperature or external sensors on mobile instruments, ODU/open ends, 5 m	2255332514
PMH Basic 2018 - data evaluation in graphic and table form - reading out of the measured data via USB Stickor Ethernet. License for 2 computers	2255332468

Technical data Leak Check Pro 1/Pro 2

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: 645...660 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 rechargeable Li-Ion batteries approx. 9 h continuous operation, 4 h charging time
Ambient temperature:	0...+50°C
EMG:	DIN EN 61326
Auto level:	Adapts the sensitivity automatically to the environment and eliminates the ambient noise reliably
Sensitivity:	min: 0.1 l/min at 6 bar, 5 m distance, approx. 1€/year compressed air costs

Technical data external sensor input (only Leak Check Pro 2)

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