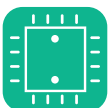


# S531

# Smart Ultrasonic Leak Detector



**MASS STORAGE**  
Almost unlimited memory for leak records, photos and voice recording



**DETECT FROM DISTANCE**  
Finds leaks in compressed air system easily even from distance



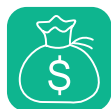
**WIRELESS CONNECTION**  
Wireless connection to headset



**ANALYSIS**  
Export data to LMS for statistics and repair



**PHOTOGRAPH LEAK PARTS**  
Build in camera to take photo of leak locations



**LOSS CALCULATE**  
Calculates air loss in m3/h or in local currency



**VOICE RECORDING**  
Voice recorder for voice memos



**NOISE REDUCTION**  
Integrated noise reduction



**LASER**  
Pinpoint locations with laser pointer



**LONG WORKING HOURS**  
Battery capacity for up to 6 hours



## Benefits

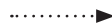
- ✔ Finds leaks in compressed air system easily even from distance
- ✔ Full support for Leak Surveys with the SUTO Leak Management Software (LMS)
- ✔ The perfect tool for professional leak detection
- ✔ Fast return on investment
- ✔ Easy to use, but powerful in performance

## Detect and manage your compressed air leaks — Save your time and costs

Finding leaks in the compressed air system is the first step into energy saving. The leaking compressed air causes immense electrical costs, as your compressors are running more than they would actually need to run.

S531 is a smart ultrasonic leak detector that helps users quickly find and record leakages in compressed air or any gas systems. The built-in touch screen assists the user easy operation in leak detecting. Photographing and voice recording make leak surveys more flexible and efficient.

S531 is designed to work with SUTO Leak Management Software (LMS) to enable companies to properly manage their leakage detection and repair activities.



### Leak Management Software (LMS)

**LMS included for free**

When purchasing a S531 set, one free LMS license is included. Start immediately creating powerful leak reports, without paying extra for additional software licenses.

## Leak Detection



Point with the laser at an assumed leak. The display will show the level of the leak.



Detection at medium distance for locating the leakage area. Record the leak losses at closer distance.



If needed, scan with the focus tube and focus tip till the exact location is found.

## Seamless Connection with Leak Management Software (LMS)



### Cost Saving

Compressed air is one of the most expensive energy forms. In Germany alone, 60,000 pneumatic systems consume 14,000,000,000 kWh electricity every year. 15 % to 20 % of this could easily be saved (Peter Radgen, Fraunhofer Institute, Karlsruhe). A large portion of these costs are caused by leaks in compressed air systems, allowing the air to "escape" unused.

Calculation example at 0.6 MPa:

1 hole of 1mm diameter = 270 EUR/year

### Option

Ultrasonic tone generator to be used in pressure less systems. The generator emits ultrasonic waves which can be detected by the S531.



# Technical Data

## Measurement

Selectable units	l/min, m <sup>3</sup> /h, cfm, bar, MPa, psi
Sensor	Ultrasonic leak detection sensor
Operating frequency	40 kHz ± 2 kHz
Laser	Wave length: 640 ... 660 nm Output power: < 1.0 mW
Camera	5.0 mega pixels

## Interface & Supply

### Supply

Power supply	Internal Lithium-Ion battery
Operating time	6 h

### Data interface

Connection	USB port for charging and data exchange
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### Headset

Headset	Noise isolated headset
Headset connection	Wireless and 3.5 mm stereo phone jack for headset

## General data

### Display

Integrated	3.5" color LCD touch screen
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### Data Logger

Storage	Integrated mass storage, up to 500 records for voice recordings and pictures
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### Material

Housing	PC + ABS
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### Miscellaneous

Protection class	IP30
Approvals	CE
Weight	430 g for the leak detector 3.65 kg for the full set

## Operating conditions

Medium	Compressed Air, refrigerants and any compressed gases
Ambient temperature	0 ... +40 °C
Ambient humidity	<90 % rH
Storage temperature	-10 ... +50 °C
Transport temperature	-20 ... +50 °C

## Dimensions



# Ordering

Please use the following tables to assist in placing your order with our sales staff.

## S531 Smart Ultrasonic Leak Detector

Order No.	Description
P601 0104	S531 Smart Ultrasonic Leak Detector Set <u>Including:</u>
P560 0104	S531 Smart Ultrasonic Leak Detector
A554 0119	Noise isolate/canceling headset, wireless
A530 0101	Focus tube and focus tip for accurately pinpointing
A554 0123	Trumpet for locating leaks over longer distances
A554 0117	Battery charger
A554 0118	Transport case S531
A554 0122	Leak tags to mark found leaks, 100 pieces
M599 7045	LMS Leak Management Software, Local Installation, 1 License (bound to local PC), no subscription, one-time payment

## S531 Accessories

Order No.	Description
A554 0133	Ultrasonic Transmitter
R200 0070	Calibration S531

## Scope of delivery

Charger



S531



Wireless head set



Focus tip



Focus tube



Trumpet



# Nordic Filtration

At [www.nordicfiltration.com](http://www.nordicfiltration.com) you will find a wide selection of filtration products ready for you to order.

Nordic Filtration offers a wide selection of filtration products for water treatment. We have stock in Denmark from where we distribute all of our products to Scandinavia and the the rest of the world.

You can buy our products on local websites or by contacting us by phone or e-mail. Information about our products as well as brochures and manuals can be found on our website ([www.nordicfiltration.com](http://www.nordicfiltration.com)).

We can adapt all of our filtration products to your needs, and we offer visits from our consultants in order to find the right solution for you.

