S531

Smart Ultrasonic Leak Detector

Screen display:

3:30 p.m.   75%

Project Name
Factory A SZ Project

Sound Level	Leak Grade
75 dB	4

Calculated Losses
18.6 l/min   119 USD/year

Pressure/Distance Setting	Sensitivity Setting
6.0 bar 100 cm	4

Record   Menu

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
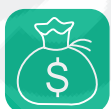
WIRELESS CONNECTION
Wireless connection to headset

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

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Instrumentación y control industrial

- 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

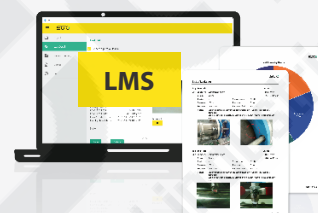## Detect and manage your compressed air leaks — Save your time and costs

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

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.

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Seamless Connection with Leak Management Software (LMS)

1 Initiation

Enter your own company information like company name, address and contact person etc. to be later printed automatically on your reports.

2 Planing

Create a new project on the fly directly via the user interface of S531. Define project name, cost and unit settings on site via the touch screen user interface.

3 Execution

Use the S531 to perform the leakage survey on site, record the found leaks, which saves the flow, costs of leak loses, take photos of the leaks and record voice memos. All to be used later in generating powerful reports.

4 Preparation

After uploading the data to LMS software, users are enabled to easily check the leakage data, add useful information and/or correct date if needed.

5 Reporting

Generate powerful reports by a simple click of one button. The reports are with your own logo and company info, so you do not have to spend any more time to sort the data and create reports in an external tool, like ord or Excel.

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 S530.

Measurement

Selectable units	l/min, m³/h, cfm, bar, MPa, psi
Sensor	Ultrasonic leak detection sensor
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
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
Data Logger	
Storage	Integrated mass storage, up to 500 records for voice recordings and pictures
Material	
Housing	PC + ABS
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

S531 Smart Ultrasonic Leak Detector

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
	Including:
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 0103	Ultrasonic tone generator
R200 0070	Calibration S531

Scope of delivery

Charger   S531   Wireless head set   Focus tip

Trumpet

Focus tube

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