

# S530

## Ultrasonic Leak Detector

Eco Version



**EASY TO USE**  
Find leaks in minutes



**LASER POINTER**  
To spot the leak



**COMPACT DESIGN**  
Can be used anywhere



**NOISE ISOLATED HEADSET**  
Inaudible signals easily to be heard



**LONG BATTERY LIFE**



## Operation Principle

When gases are leaking through tubes and tanks, an ultrasonic sound is produced which can be detected by the S530 even from several meters away. The S530 transforms these inaudible signals into a frequency which can be easily heard by using the supplied noise isolated headset.

The integrated laser pointer helps to spot the leak from distance. In unpressurized systems, an ultrasonic tone generator can be used whose sound will leak through small openings.

## Save Your Time and Costs

Leaks in compressed air systems can significantly increase the cost of compressed air.

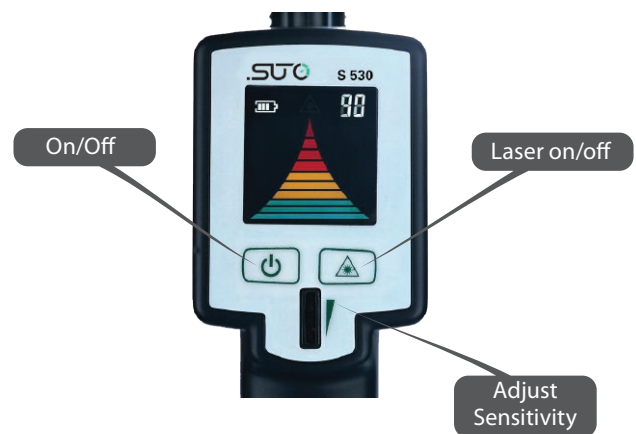
The detection of leaks is an important maintenance requirement, which can be done by soapy water or in a more convenient way with ultrasonic leak detectors like S530.

The S530 Leak Detector is providing an easy-to-use and cost-efficient solution to detect leaks in compressed air and gas systems.

## Applications

- Leak detection in compressed air, refrigerants, simply of any gas!
- Insulation test of doors and windows
- Detection of partial electrical discharges causing damages on insulations

## Easy to use



## 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.



Scan with the focus tube and focus tip the roughly location till the exact location is found.

## Technical Data

### Measurement

#### Flow

Sensor	Ultrasonic leak detection sensor
Laser	640 ... 660 nm wavelength 0.4 ... 0.5 mW output power

#### Supply

Power supply	Internal NiMH rechargeable battery
Operating time	6h

#### Headset

Headset	Noise isolated head set
Headset connection	3.5 mm stereo phone jack

### General data

#### Display

Integrated	3 color black-mask LCD, 10 level
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#### Material

Housing	PC + ABS
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#### Miscellaneous

Protection class	IP30
Approvals	CE
Weight	2.5 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



### 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.



# Ordering

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

## S530 Ultrasonic Leak Detector

Order No.	Description
P601 0103	S530 Ultrasonic Leak Detector set <u>Including:</u>
P560 0102	S530 Ultrasonic Leak Detector
S605 0001	Sensor unit
A554 0119	Noise isolated headset
A530 0101	Focus tube and focus tip
A554 0113	Battery charger
A554 0101	Transport case S530

## S530 Accessories

Order No.	Description
A554 0133	Ultrasonic Transmitter

### Contents of Set

