LEAK DETECTION AND CLASSIFICATION

CONDITION MONITORING OF MACHINERY

STEAM TRAP INSPECTION

TIGHTNESS TESTING

DETECTION OF PARTIAL DISCHARGES

ULTRASONIC TESTING DEVICE

THE NEW DEVICE CLASS FOR PREVENTIVE MAINTENANCE

MADE IN GERMANY

SONAPHONE® ULTRASONIC SOLUTIONS

PREVENTIVE MAINTENANCE

- Leak detection and classification
- Maintenance of machinery
- Steam trap inspection
- Tightness testing
- Detection of partial discharges
APPLICATIONS

- Condition monitoring of machinery
- Steam trap inspection
- Tightness testing
- Detection of partial discharges

GENERAL DATA SONAPHONE

Device design: Digital ultrasonic testing device

Display: 6” 160x96 pixels with multifunctional orientation

Available output signals:
- Via loudspeakers
- USB 2.0, Bluetooth®
- Via multi-microphone signal processing

Dimensions (W x H x D): 115 x 155 x 30 mm

Weight: 143 g

Temperature range:
- Operating temperature: -10 °C to +40 °C
- Storage temperature: -20 °C to +60 °C

Battery:
- Nominal voltage: 3.7 V
- Operating time in continuous operation: 4 h
- Standby time: 10 years

Protection class: IP 65

Memory: 16 GB Flash internal measurement data memory

Standards and approvals:
- EN 61215, EN 55022, EN 55011, MIL STD 883C

TECHNICAL DATA

Data display:
- Level, level record, spectrum, frequency, fast ultrasonic channel, sound level
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Measurement values:
- Sound pressure level
- Sound pressure frequency
- Fast ultrasonic channel sound level
- Leq - Equivalent continuous sound level
- Lmax – Maximum level of instantaneous level
- Lmin – Minimum level of instantaneous level
- Lpk – Peak level
- LF – Instantaneous level with time weighting
- L – Instantaneous level

Other functions:
- Tone function
- Record of events
- Record of voice memos
- Selection of current application
- Export of selected data sets for subsequent processing via PC
- Generation of PDF reports

Languages:
- German, English

SCOPE OF DELIVERY & ACCESSORIES

Ultrasonic testing device: SONAPHONE

- Operating temperature:
  - -10 °C to +40 °C

Leak detection and classification

Condition monitoring of machinery

Steam trap inspection

Tightness testing

Detection of partial discharges

SONOTEC preserves the right to change technical specifications without further notice. (Rev. 1 / 2016-04-11)

SALES & SUPPORT

SONOTEC Ultraschalldosier- und Seismotechnik GmbH
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www.sonotec.de

Certified according to ISO 9001

MADE IN GERMANY

SONOTEC

ULTRASONIC TESTING DEVICE

THE NEW DEVICE CLASS FOR PREVENTIVE MAINTENANCE

Preventive Maintenance

- Leak detection and classification
- Condition monitoring of machinery
- Steam trap inspection
- Tightness testing
- Detection of partial discharges

Equipment

- Ultrasonic testing device
- Operating temperature: -10 °C to +40 °C
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Applications

- Condition monitoring of machinery
- Tightness testing
- Valve inspection
- Detection of partial discharges
- Steam trap inspection
- Leak detection and classification

Scope of delivery & accessories

- Ultrasonic testing device: SONAPHONE
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Technical data

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- Languages: German, English

Specifications

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- Memory: 16 GB Flash internal measurement data memory
- Standards and approvals: EN 61215, EN 55022, EN 55011, MIL STD 883C

Accessories

- Protective cover, protective foil
- Additional accessories: Protective case, protective film, carrying strap

Contact

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089/30 12 33 00 - e-mail: sonotec@sonotec.de
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Certified according to ISO 9001
Successful implementation of maintenance 4.0 in a company requires device technology that meets requirements on networking and mobility. Information on the condition of machinery and systems must be available quickly, so processes can be optimized, energy costs can be minimized, and problems can be detected early on.

For this reason, SCHOTEC developed the new SONAPHONE. The digital ultrasonic testing device combines novel sensors and software that can be operated intuitively for preventive maintenance. Innovative airborne and structure-borne sound sensors that can be connected to the multi-function testing device makes sonotesting easier and more efficient. This opens up new domains of use. Using the SONAPHONE you can find and classify leaks in compressed air, gas and vacuum systems, detect partial discharges and check the function of steam traps and valves. The mobile handheld device is operated via a touchscreen like a tablet and is the ideal companion throughout the entire test procedure. Besides test values and spectrograms, it is also possible to store photographs, voice memos and comments relating to the measuring points. With only a few clicks you resolve a test report and can prove management your contribution to energy efficiency and process optimization.

With the SONAPHONE you can see and hear everything that happens in the ultrasonic frequency range from 20 to 100 kHz. Thus the innovation extends the way for new domains of use. While other ultrasonic testing devices can only find leaks, SONAPHONE can also be used to classify the leak size at the same time. Based on methods of aeronausics with just one simple motion, you pave the way for new domains of use. Using the SONAPHONE you can find and classify leaks in compressed air, gas and vacuum systems, analyze the condition of your machine and systems, detect partial discharges and check the function of steam traps and valves. The mobile handheld device is operated via a touchscreen like a tablet and is the ideal companion throughout the entire test procedure. Besides test values and spectrograms, it is also possible to store photographs, voice memos and comments relating to the measuring points. With only a few clicks you resolve a test report and can prove management your contribution to energy efficiency and process optimization.

NEW APPLICATIONS THROUGH NEW PROCESSES

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Successful implementation of maintenance 4.0 in a company requires device technology that meets requirements on networking and mobility. Information on the condition of machines and systems must be available quickly, as processes can be optimized, energy costs can be minimized, and problems can be detected early on.

For this reason, SONOTECH developed the new SONAPHONE. The digital ultrasonic testing device combines novel sensors and software that can be operated intuitively for preventive maintenance. Innovative airborne and structure-borne sound sensors can be connected to the multi-function testing device and thus pave the way for new domains of application.

The mobile handheld device is operated with a touchscreen like a tablet and is ideal for handheld applications. The result of the patent-pending classification and evaluation of leaks for the latest generation of the SONAPHONE testing device. The result of the patent-pending classification and evaluation of leaks for the latest generation of the SONAPHONE testing device. The result of the patent-pending classification and evaluation of leaks for the latest generation of the SONAPHONE testing device. The result of the patent-pending classification and evaluation of leaks for the latest generation of the SONAPHONE testing device. The result of the patent-pending classification and evaluation of leaks for the latest generation of the SONAPHONE testing device.

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SUCCESSFUL IMPLEMENTATION OF MAINTENANCE 4.0 IN A COMPANY REQUIRE DEVICE TECHNOLOGY THAT MEETS REQUIREMENTS ON NETWORKING AND MOBILITY. INFORMATION ON THE CONDITION OF MACHINES AND SYSTEMS MUST BE AVAILABLE QUICKLY, AS PROBLEMS CAN BE OPTIMIZED, ENERGY COSTS CAN BE MINIMIZED, AND PROBLEMS CAN BE DETECTED EARLY ON.

For this reason, SCHOTEC developed the new SONAPHONE. The digital ultrasound testing device combines novel sensors and software that can be operated intuitively for preventive maintenance. Innovative airborne and structure-borne sound sensors that can be connected to the multi-function testing device

With the SONAPHONE, you can see and hear everything that happens in the ultrasound frequency range from 20 to 100 kHz. Thus, the innovation enables you to approach new domains of use. While other ultrasound testing devices can only find leaks, SONAPHONE can also be used to classify the leak size at the same time. Based on methods of aeroscopes with just one simple motion, you can gain an overview of new domains of use. Using the SONAPHONE, you can find and classify leaks in compressed air, gas, and vacuum systems, analyze the condition of your machine and system, detect partial discharges and check the function of steam traps and valves. The mobile handheld device is operated with a touchscreen like a tablet and is the ideal companion throughout the entire test procedure. Besides test values and spectrograms, it is also possible to store photographs, voice memos, and comments relating to the measuring points. With only a few clicks you resolve a test report and can prove management your contribution to energy efficiency and process optimization.

SCHOTEC developed a completely new process for classification and evaluation of leaks for the latest generation of the SONAPHONE testing device. The result of the patent-pending methods are pleasurable values for the classification of the leak size and for estimations of the savings potential.

With the SONAPHONE you can get your hands on a mobile handheld device that offers you many advantages:

- **Variable display of the FREQUENCIES FROM 20 TO 100 kHz**: Measured data integration of the data into your machine and system data while networking and mobility. Information on the condition of machines and systems must be available quickly, as problems can be optimized, energy costs can be minimized, and problems can be detected early on.

- **New applications through new processes**: The apps offer all functions you need for comprehensive analysis of the inspection data. Besides measured values and the spectrograms, it is also possible to add images, voice memos, and comments to the respective measuring point. A clear presentation of the data gathered makes subsequent analysis easier.

- **Create test reports with a few clicks**: The user-friendly interface speeds up your inspection process. Adjustable views in no time allows you to know your inspection task and you can hear and see what is happening in the ultrasound frequency range from 20 to 100 kHz. Especially the spectrograms and level record help you to detect potential defects early on.

- **Integrates the data into existing systems**: The apps offer all functions you need for comprehensive analysis of the inspection data. Besides measured values and the spectrograms, it is also possible to add images, voice memos, and comments to the respective measuring point. A clear presentation of the data gathered makes subsequent analysis easier.

- **Innovative airborne and structure-borne sound sensors**: That can be connected to the multi-function testing device. Besides test values and spectrograms, it is also possible to store photographs, voice memos, and comments relating to the measuring points. With only a few clicks you resolve a test report and can prove management your contribution to energy efficiency and process optimization.

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- Valve inspection
- Steam trap inspection
- Leak detection and classification
- Tightness testing
- Detection of partial discharges

GENERAL DATA SONAPHONE

Device design Digital ultrasonic testing device
Display 4.1" TFT display with multifunctional controller
Available output types Via hoxiupload or wired headphones, USB output, Ethernet output, local display
Dimensions (W x H x D) 165 x 140 x 25 mm
Weight 250 g
Temperature range Operating temperature: -20... +40 °C
Battery Charge time 4 h typically
Operating time in_continuous operation 6 h
Operating time in practical use 8-12 h
Internal memory 8 GB Flash system memory
External memory 16 GB Flash internal measurement data memory
Standards & directives ROSA RL 201 1/65/EU, ASTM E1002-2005

TECHNICAL DATA

APP: LEVEL METER

- Display Level, level record, spectrogram, data display, level and signal display, level and signal level
- Measurement value Sound on dB
- Other functions Take pictures, record of voice messages, selection of current application, export of selected data sets for subsequent processing

LANGUAGE

English, German

SCOPE OF DELIVERY & ACCESSORIES

- SONAPHONE Ultrasonic testing device
- Wall mount, carrying strap
- Cable connection to SONAPHONE
- Additional accessories Protective cover, protective foil, carrying strap

ACCESSORIES

- Short waveguide Diameter: 18 mm, Length: 150 mm
- Long waveguide Diameter: 18 mm, Length: 22 mm
- Connector Lemo, optional Bluetooth® headphones
- Adapters Interchangeable attachments to increase the signal strength
- Small acoustic horn for close range signal strength: 7 dB, Diameter: 9 mm
- Interchangeable attachments for precise localization of defective parts

MADE IN GERMANY

SONAPHONE THE NEW DEVICE CLASS FOR PREVENTIVE MAINTENANCE