APPLICATIONS

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

GENERAL DATA SONAPHONE

Device design: Digital ultrasonic testing device

Display: 5" TFT Display with multi-touch controller

Available output connections:
- Via loudspeaker or wired headphones
- Bluetooth® headphones

Dimensions (W x H x D): 98 x 174 x 25 mm

Weight: 370 g

Temperature range:
- Operating temperature: -20°C to +60°C
- Storage temperature: -20°C to +80°C

Battery: Lithium-ion battery operating time is predefined at 50 h. Time varies depending on application duration & environment conditions.

Connectors and interfaces:
- 1 x fast charger socket (Mains)
- USB (microB), slot for microSD card
- 1 x fast ultrasonic channel (Lemo), cable connection to SONAPHONE

Protection class: IP40

Memory: 16 GB Flash system memory, 8 GB Flash internal measurement data memory

APP: LEVEL METER

- Display: Level, level record, spectrogram
- Measurement values:
  - LF – Instantaneous level with time weighting
  - L – Instantaneous level
  - LpA – Peak level
  - Leq – Equivalent continuous sound level
  - Lpk – Peak level
  - Lmin – Minimum level of instantaneous level
  - Lmax – Maximum level of instantaneous level

Other functions:
- Take photos
- Record of voice memos
- Display measurement values
- Switching between portrait or landscape
- Display in dB

Languages:
- German, English

SCOPE OF DELIVERY & ACCESSORIES

- 1x fast ultrasonic channel (Lemo), cable connection to SONAPHONE
- 1x fast charger socket (Mains)
- USB (microB), slot for microSD card
- 1 KΩ temperature:
  - Measurement range: -10°C to +150°C

Accessories:
- Interchangeable attachments to increase the signal strength
- Small acoustical horn for close range
- Large acoustical horn for long distances
- Interchangeable temperature sensors
- Additional accessories: protective case, protective foil, carrying strap

TECHNICAL DATA

Dimensions (W x H x D): 98 x 174 x 25 mm

Weight: 370 g

Temperature range:
- Operating temperature: -20°C to +60°C
- Storage temperature: -20°C to +80°C

Protection class: IP40

Memory:
- 16 GB Flash internal measurement data memory, 8 GB Flash system memory

APP: LEVEL METER

- Display: Level, level record, spectrogram
- Measurement values:
  - LF – Instantaneous level with time weighting
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Languages:
- German, English

Accessories:
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Dimensions (W x H x D): 98 x 174 x 25 mm

Weight: 370 g

Temperature range:
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Protection class: IP40

Memory:
- 16 GB Flash internal measurement data memory, 8 GB Flash system memory

APP: LEVEL METER

- Display: Level, level record, spectrogram
- Measurement values:
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Languages:
- German, English

Accessories:
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- Large acoustical horn for long distances
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- Additional accessories: protective case, protective foil, carrying strap

Appendix

- Additional accessories: protective case, protective foil, carrying strap

APP: LEVEL METER

- Display: Level, level record, spectrogram
- Measurement values:
  - LF – Instantaneous level with time weighting
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Other functions:
- Take photos
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- Display in dB

Languages:
- German, English

Accessories:
- Interchangeable attachments to increase the signal strength
- Small acoustical horn for close range
- Large acoustical horn for long distances
- Interchangeable temperature sensors
- Additional accessories: protective case, protective foil, carrying strap

TECHNICAL DATA

Dimensions (W x H x D): 30 x 145 x 30 mm

Weight: 80 g

Temperature range:
- Operating temperature: -10°C to +40°C
- Storage temperature: -20°C to +80°C

Protection class: IP40

Memory:
- 16 GB Flash internal measurement data memory, 8 GB Flash system memory

APP: LEVEL METER

- Display: Level, level record, spectrogram
- Measurement values:
  - LF – Instantaneous level with time weighting
  - L – Instantaneous level
  - LpA – Peak level
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Other functions:
- Take photos
- Record of voice memos
- Display measurement values
- Switching between portrait or landscape
- Display in dB

Languages:
- German, English

Accessories:
- Interchangeable attachments to increase the signal strength
- Small acoustical horn for close range
- Large acoustical horn for long distances
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APP: LEVEL METER

- Display: Level, level record, spectrogram
- Measurement values:
  - LF – Instantaneous level with time weighting
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  - Lmax – Maximum level of instantaneous level

Other functions:
- Take photos
- Record of voice memos
- Display measurement values
- Switching between portrait or landscape
- Display in dB

Languages:
- German, English

Accessories:
- Interchangeable attachments to increase the signal strength
- Small acoustical horn for close range
- Large acoustical horn for long distances
- Interchangeable temperature sensors
- Additional accessories: protective case, protective foil, carrying strap

TECHNICAL DATA

Dimensions (W x H x D): 8 x 13 x 1.7 cm

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

Protection class: IP40

Memory:
- 16 GB Flash internal measurement data memory, 8 GB Flash system memory

APP: LEVEL METER

- Display: Level, level record, spectrogram
- Measurement values:
  - LF – Instantaneous level with time weighting
  - L – Instantaneous level
  - LpA – Peak level
  - Leq – Equivalent continuous sound level
  - Lpk – Peak level
  - Lmin – Minimum level of instantaneous level
  - Lmax – Maximum level of instantaneous level

Other functions:
- Take photos
- Record of voice memos
- Display measurement values
- Switching between portrait or landscape
- Display in dB

Languages:
- German, English

Accessories:
- Interchangeable attachments to increase the signal strength
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- Large acoustical horn for long distances
- Interchangeable temperature sensors
- Additional accessories: protective case, protective foil, carrying strap
## APPLICATIONS

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

## USER INTERFACE

- Data display: Level, loudness, temperature, structure-borne ultrasound
- Measurement values: Sound level in dB, loudness level, temperature level
- Other functions: Take picture, record of voice memos, record of defective parts, 30 x 155 x 30 mm

## TECHNICAL DATA

### Ultrasonic Solution

- Ultrasonic testing device
- Digital ultrasonic testing device
- 9" TFT display with multi-touch control
- Dimensions (W x H x D): 30 x 155 x 25 mm
- Weight: 140 g
- Frequency range: 20 to 100 kHz
- Temperature range: -20 to +60 °C
- Operating time in continuous operation: 4 h
- Temperature range: -10 to +40 °C
- Weight: 15 g
- Length: 150 mm
- Acoustic output: Via loudspeakers or wired headphones
- Operating temperature: -20 to +60 °C
- Weight: 140 g
- Length: 150 mm
- Acoustic output: Via keys on sensor or via SONAPHONE

### Applications

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

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**PREVENTIVE MAINTENANCE**

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

**MADE IN GERMANY**

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**SALES & SUPPORT**

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- E-mail: sonotec@sonotec.de
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**SONOTEC preserves the right to change technical specifications without further notice. (Rev. 1 / 2016-04-11)**

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**ULTRASONIC TESTING DEVICE**

**THE NEW DEVICE CLASS FOR PREVENTIVE MAINTENANCE**

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**SONOTEC**

**ULTRASONIC SOLUTIONS**

**THE NEW DEVICE CLASS FOR PREVENTIVE MAINTENANCE**
### NEW APPLICATIONS THROUGH NEW PROCESSES

<table>
<thead>
<tr>
<th>Process</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steam Trap Testing</td>
<td>Detect and classify leaks in compressed air, gas, and vacuum systems, and reduce energy costs.</td>
</tr>
<tr>
<td>Tightness Testing</td>
<td>Identify leaks in windows, doors, walls, components, and ensure compliance with specified quality requirements.</td>
</tr>
<tr>
<td>Leak Detection and Classification</td>
<td>Detect and classify leaks in compressed air, gas and vacuum systems.</td>
</tr>
<tr>
<td>Detection of Partial Discharges</td>
<td>Increase your operation safety and find electrical partial discharges and insulation damage.</td>
</tr>
</tbody>
</table>

### SONAPHONE ADVANTAGES AT A GLANCE

- **DTM (Down Time Management)**: Minimize, improve, optimize downtime.
- **Energy Efficiency**: Increase, improve, optimize energy efficiency.
- **Operational Safety**: Increase, improve, optimize operational safety.
- **Processes**: Minimize, improve, optimize processes.

### SONAPHONE INNOVATIVE ULTRASONIC SENSORS

- **Ultrasonic Sound Sensor**
  - Interchangeable attachments (including target laser and LED lamp)

- **Airborne Sound Sensor**
  - Interchangeable waveguides (including LED lamp)

- **Structure-Borne Sound and Temperature Sensor**
  - Interchangeable waveguides (including LED lamp)

### PLANNING

With the SONAPHONE you always have an overview of the condition of your systems. Manage and organise your inspection tasks with apps, which are easy to operate. Whichever leak classification, condition monitoring of machinery or steam trap testing – the parameters to be recorded are adapted optimally to the different tasks of preventive maintenance.

### INSPECTION

The user-friendly interface speeds up your inspection process. Adapt views in no time to the respective inspection task and you can hear and see what is happening in the ultrasonic frequency range from 20 to 100 kHz. Especially the spectrogram and level record help you to detect potential deficiencies early on.

### DOCUMENTATION

The app offers all functions you need for comprehensive analysis of the inspection data. Beside measured values and the spectrogram, 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.

### ANALYSIS

You generate the test report at the end of a test procedure with only a few clicks. The user-friendly interface and laborious paper records are a thing of the past. Documentation is easier. Re-usable energy savings, increased operational safety and machinery availability.

### CONDITION MONITORING OF MACHINERY

Monitor the condition of your machinery and systems. For optimal maintenance, time and resources are important. With the SONAPHONE, condition monitoring, maintenance, and laborious paper records are a thing of the past. Documentation is easier. Re-usable energy savings, increased operational safety and machinery availability.

### LEAK DETECTION AND CLASSIFICATION

Detect and classify leaks in compressed air, gas and vacuum systems. The result of the patent-pending classification and evaluation of leaks for the latest generation of the SONAPHONE testing device is presented in a clear and easy-to-read fashion.

### TIGHTNESS TESTING

Identify leaks in windows, doors, walls, components and ensure compliance with specified quality requirements.

### DETECTION OF PARTIAL DISCHARGES

Increase your operation safety and find electrical partial discharges and insulation damage.

### STEAMTRAP TESTING

Assess the function of steam traps and prevent energy and steam loss and damage to the steam system.
**NEW APPLICATIONS THROUGH NEW PROCESSES**

<table>
<thead>
<tr>
<th>Downtimes</th>
<th>Operational Safety</th>
<th>Energy Efficiency</th>
<th>Processes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximize</td>
<td>Increase</td>
<td>Improve</td>
<td>Optimize</td>
</tr>
</tbody>
</table>

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, SONOTEC 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 combined in the multi-function testing device with just one simple motion, just 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 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 receive 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 innovative sensor pairs 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 aeroacoustics, defects early on.

- **LEAK DETECTION AND CLASSIFICATION**: Detect and classify leaks in compressed air, gas and vacuum systems and reduce the energy costs for your compressed air system by up to 30 percent.
- **TIGHTNESS TESTING**: Identify leaks in windows, doors, units, components and containers and ensure compliance with specified quality requirements.
- **DETECTION OF PARTIAL DISCHARGES**: Increase your operation safety and find electrical partial discharge sources early on.
- **STREAM TRAP TESTING**: Assess the function of steam traps and prevent energy and steam loss and damage to the steam system.
- **CONDITION MONITORING OF MACHINERY**: Monitor the condition of your machinery and systems, determine the optimal maintenance time and support unachieved downtimes.

**PLANNING**

With the SONAPHONE you always have an overview of the condition of your systems. Manage and organize your inspection tasks with apps, which are easy to operate. Whether leak classification, condition monitoring of machinery or steam trap testing - the parameters to be recorded are adapted optimally to the different tasks of preventive maintenance.

**INSPECTION**

The user-friendly interface speeds up your inspection process. Adapt views in no time to the respective inspection tasks and you can hear and see what is happening in the ultrasonic frequency range from 20 to 100 kHz. Especially the spectrogram and level record help you to detect potential defects early on.

**DOCUMENTATION**

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.

**ANALYSIS**

You generate the test report at the end of a test procedure with only few clicks. The intuitive and laborious paper records are a thing of the past. Document the valuable contribution to the company’s success. Reduce energy savings, increase operational safety and machine availability.
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 PROBLEMS CAN BE OPTIMIZED, ENERGY COSTS CAN BE MINIMIZED, AND PROBLEMS CAN BE DETECTED EARLY ON.

For this reason SONOTEC 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 combined with the multi-function testing device with just one simple motion 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 machinery and systems, 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 receive a test report and can prove management your contribution to energy efficiency and process optimization.

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APPLICATIONS

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

GENERAL DATA SONAPHONE

- Device design: Digital ultrasonic testing device
- Display: 3.5” TFT-Display with multifunctional control panel
- Available inductance probes: Via touchpoints or wired keyboards
- Measurement data management: Large Windows application
- Dimensions (W x H x D): 98 x 174 x 25 mm
- Weight: 140 g
- Temperature range: Shaking temperature: -20 ... +60 °C
- Operating temperature: -10 ... +40 °C
- Battery: 1 x fast ultrasonic channel (Lemo), 1 x fast ultrasonic channel (standard), 1 x fast ultrasonic channel (standard)
- Connectivity and interfaces: USB 2.0 (microB), headphones (jack plug 3.5 mm), slot for microSD card
- Protection class: IP40
- Memory: 16 GB Flash internal measurement data memory
- Standards and approvals: EN 12455, DNVGL-RP-F101, ISO 11819, ASME NDE Workbook

TECHNICAL DATA

- Device design: General purpose instrument for the detection of defects in metal walls and non-metallic objects
- Operating: Via keys on sensor or via SONAPHONE
- Measurement range: Measurement range, linear, linear, linear, linear
- Protection class: IP50
- Frequency range: 20 Hz to 16 kHz
- Resolution: 1 dB
- Accessories: Interchangeable attachments to increase the signal strength

- Scope of delivery & accessories
  - Instrument, cables, accessories, calibration certificates, operating instructions
  - Software: Leak Expert
  - Memory: 16 GB Flash internal measurement data memory
  - Languages: German, English

APP-LEVEL METER

- Data display: Level, level record, spectrogram, data display
- Measurement values: Display and recall
- LSEL - Selectable level with linear weighting
- LERP - Equivalent continuous sound level
- LMIN - Minimum level of inaudible sound level
- LMAX - Maximum level of instantaneous level

- Other functions: Talk Diagnosis
- Record of voice memos
- Switching between portrait or landscape
- Memory: 8 GB Flash system memory
- Languages: German, English

SCOPE OF DELIVERY & ACCESSORIES

- Instrument, cables, accessories, calibration certificates, operating instructions
- Software: Leak Expert
- Memory: 8 GB Flash internal measurement data memory
- Languages: German, English

ABSORBED SOUND SENSOR

- Detune design: Sensor for detection of acoustic signals incl. signal level and LED light
- Operating: Via keys on sensor or via SONAPHONE
- Measurement range: Measurement range, linear, linear, linear
- Protection class: IP50
- Frequency range: 20 Hz to 16 kHz
- Resolution: 1 dB
- Connector: Cable connection to SONAPHONE
- Accessories: Interchangeable attachments to increase the signal strength

- Scope of delivery & accessories
  - Instrument, cables, accessories, calibration certificates, operating instructions
  - Software: Leak Expert
  - Memory: 16 GB Flash internal measurement data memory
  - Languages: German, English

STRUCTURE-BORNE SOUND & TEMPERATURE SENSOR

- Device design: General purpose instrument for the detection of defects in metal walls and non-metallic objects
- Operating: Via keys on sensor or via SONAPHONE
- Measurement range: Measurement range, linear, linear, linear
- Protection class: IP50
- Frequency range: 20 Hz to 16 kHz
- Resolution: 1 dB
- Connector: Cable connection to SONAPHONE
- Accessories: Interchangeable attachments to increase the signal strength

- Scope of delivery & accessories
  - Instrument, cables, accessories, calibration certificates, operating instructions
  - Software: Leak Expert
  - Memory: 16 GB Flash internal measurement data memory
  - Languages: German, English

ULTRASONIC TESTING DEVICE

THE NEW DEVICE CLASS FOR PREVENTIVE MAINTENANCE

MADE IN GERMANY

SALES & SUPPORT

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