SONAPHONE

The New Device Class for Preventive Maintenance

Advantages at a glance:

- New applications through new processes
- User-friendly interface speeds up your inspection process
- Record ultrasonic frequencies from 20 to 100 kHz
- Store test data and spectrograms
- Add photographs, voice memos and comments to the measuring point
- Create test reports with a few clicks
- Minimize downtimes and increase operational safety
- Improve energy efficiency

Get A Quote
ULTRASONIC TESTING DEVICE FOR MAINTENANCE 4.0

In the age of Industry 4.0 the optimizing processes, increasing operational safety, and improving energy efficiency are becoming more and more significant. Meet the challenges of Maintenance 4.0 with the new SONAPHONE from SONOTEC. The digital ultrasonic testing device combines innovative sensors and software for preventive maintenance that can be operated intuitively and paves the way for new processes for new applications.

APPLICATIONS

With the new SONAPHONE you can

- detect and classify leaks in compressed air, gas and vacuum systems and reduce your energy costs,
- monitor the condition of your machines and determine the optimal maintenance time,
- identify leaks in windows, doors, vehicles, components and containers and ensure compliance with specified quality requirements,
- find electrical partial discharges and insulation damage and increase your operational safety,
- assess the function of steam traps and prevent energy and steam loss and damage to
the steam system

BROADBAND ULTRASONIC ANALYSIS

Frequency range from 20 to 100 kHz

SOFTWARE THAT IS INTUITIVE TO OPERATE

The apps accompany you through the entire testing process, from planning, testing and documentation to analysis.

SONAPHONE can be operated intuitively like a tablet via 5-inch display with multi-touchscreen.

Reduce Paper records, which are error-prone and above all time-consuming.

BUNDLING RELEVANT INFORMATION

The apps bundle all information relevant to maintenance so you always have an overview of the condition of your machines and systems.

Record spectrograms, time signals, sound files and levels.

Add photos, text comments and voice memos.

TEST REPORTS WITH A FEW CLICKS

Create a professional report as a PDF and save time.

Evaluate test data on the PC with SONAPHONE DataViewer.

Video

Technical Data

GENERAL DATA SONAPHONE

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Device design</strong></td>
<td>Digital ultrasonic testing device</td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td>5” TFT-Display with multi-touch controller</td>
</tr>
<tr>
<td><strong>Acoustic output of signals</strong></td>
<td>Via loudspeakers or wired headphones</td>
</tr>
<tr>
<td><strong>Dimensions (W x H x D)</strong></td>
<td>90 x 174 x 25 mm</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>370 g</td>
</tr>
<tr>
<td><strong>Temperature range</strong></td>
<td>Storing temperature: -20 to +60 °C Operating temperature: -10 to +40 °C</td>
</tr>
</tbody>
</table>
| **Battery** | Charging time 4 h typically  
Operating time in practical use 8-12 h  
Operating time in continuous operation 4 h |
| **Connectors and interfaces** | 1 x fast ultrasonic channel (Lemo)  
USB 2.0 (microB)  
stereo headphones (jack plug 3.5 mm)  
slot for microSD card |
| **Protection class** | IP40 |
| **Memory** | 8 GB Flash system memory  
16 GB Flash internal measurement data memory |
| **Standards and directives** | EMV RL 2014/30/EU  
WEEE RL 2012/19/EU  
RoHS RL 2011/65/EU  
ASTM E1002-2005 |

### GENERAL DATA SENSORS

| **Airborne sound sensor** | **Structure-borne sound & temperature sensor** |
| **Device design** | Sensor for detection of air ultrasound signals incl. target laser and LED light  
Contact sensor for detection of structure-borne ultrasound, interchangeable waveguides, contactless infrared temperature sensor, LED-light |
| **Operating** | Via keys on sensor or via SONAPHONE touchscreen  
**Keys:**  
start/stop measurements  
LED light  
laser  
volume  
Via keys on sensor or via SONAPHONE touchscreen  
**Keys:**  
start/stop measurements  
LED light  
volume |
| **Dimensions (W x H x D)** | 30 x 155 x 30 mm  
30 x 155 x 30 mm |
| **Weight** | 80 g  
140 g |
| **Temperature range** | Storing temperature: -20 to +60 °C  
Operating temperature: -10 to +40 °C  
Storing temperature: -20 to +60 °C  
Operating temperature: -10 to +40 °C |
| **Protection class** | IP40  
IP40 |
| **Frequency range** | 20 to 100 kHz  
20 to 100 kHz |
<table>
<thead>
<tr>
<th><strong>Temperature range</strong></th>
<th>-70 to +380 °C object temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Resolution</strong></td>
<td>1 dB</td>
</tr>
<tr>
<td></td>
<td>Ultrasound: 1 dB</td>
</tr>
<tr>
<td></td>
<td>Temperature: 1 K</td>
</tr>
<tr>
<td><strong>Connector</strong></td>
<td>Cable connection to SONAPHONE</td>
</tr>
<tr>
<td></td>
<td>Length coiled cable: 160 cm</td>
</tr>
<tr>
<td></td>
<td>Cable connection to SONAPHONE</td>
</tr>
<tr>
<td></td>
<td>Length coiled cable: 160 cm</td>
</tr>
<tr>
<td><strong>Accessories</strong></td>
<td>Interchangeable attachments to</td>
</tr>
<tr>
<td></td>
<td>increase the signal strength:</td>
</tr>
<tr>
<td></td>
<td>Small acoustical horn for close</td>
</tr>
<tr>
<td></td>
<td>range, large acoustical horn for</td>
</tr>
<tr>
<td></td>
<td>long distances, attachment for</td>
</tr>
<tr>
<td></td>
<td>precise localization of defective</td>
</tr>
<tr>
<td></td>
<td>parts</td>
</tr>
</tbody>
</table>

**Short Waveguide:**
- Length: 22 mm
- Diameter: 18 mm
- Weight: 33 g

**Long Waveguide:**
- Length: 150 mm
- Diameter: 18 mm
- Weight: 15 g

**Software**

**LEVELMETER**
App on SONAPHONE for basic maintenance tasks

**LEAKEXPERT**
App on the SONAPHONE for leak detection and quantification
SONAPHONE DATAVIEWER

Display of the LevelMeter recordings on the computer

SONAPHONE DATASUITE

COMING SOON
Routing | Trending | Alarm Levels | Reporting

Sensors

BS10

Broadband airborne sound sensor for leak detection and electrical inspection
Applications: Leak detection and classification on compressed air, gas and vacuum systems, Tightness testing of unpressurized systems, Detection of partial discharges up to 8 m

**BS20**

Broadband structure-borne sound und temperature sensor
Applications: Condition monitoring, Steam trap and valve inspection

**BS30**

Broadband parabolic sensor for leak detection and electrical inspection up to 25 m
Applications: Leak detection on compressed air, gas and vacuum systems, Tightness testing of unpressurized systems, Detection of partial discharges up to 25 m

360° view
360° view

## Downloads

<table>
<thead>
<tr>
<th>Type</th>
<th>Title</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDF</td>
<td>Flyer SONAPHONE</td>
<td>15.47 MB</td>
</tr>
<tr>
<td>PDF</td>
<td>Product Catalog SONAPHONE</td>
<td>1.24 MB</td>
</tr>
<tr>
<td>PDF</td>
<td>10 Reasons to Purchase the New SONAPHONE</td>
<td>2.04 MB</td>
</tr>
<tr>
<td>PDF</td>
<td>Short Instructions SONAPHONE and LevelMeter App</td>
<td>753 KB</td>
</tr>
<tr>
<td>PDF</td>
<td>Short Instructions LeakExpert App</td>
<td>8.29 MB</td>
</tr>
<tr>
<td>PDF</td>
<td>User Documentation SONAPHONE</td>
<td>4.65 MB</td>
</tr>
<tr>
<td>PDF</td>
<td>Flyer BS30</td>
<td>113 KB</td>
</tr>
</tbody>
</table>

DO YOU HAVE ANY QUESTIONS?
Then contact us! We're here to help.

+1 631 / 415 4758
sales@sonotecusa.com

APPLICATIONS:

- Ultrasonic Leak Detection
- Ultrasonic Tightness Testing
- Steam Trap & Valve Inspection
- Bearing Monitoring & Lubrication
- Detection of Partial Discharges