

10 REASONS TO PURCHASE THE NEW

SONAPHONE

DIGITAL ULTRASONIC TESTING DEVICE

1. TOUCHSCREEN TECHNOLOGY

The **SONAPHONE** can be operated intuitively like a tablet via 5-inch display with multi-touchscreen. Even new employees and service providers master the extremely **comfortable handling** quickly and can perform test processes themselves after just brief introduction.

2. BROADBAND ULTRASONIC ANALYSIS

With the new SONAPHONE maintenance staff can see and hear everything that happens in the frequency range **from 20 to 100 kHz**. In contrast only a narrow frequency range can be gathered with comparable testing technology. By integrating **new sensors, innovative measurement technology** and **advanced data processing**, SONOTEC has successfully provided a completely new analysis of the ultrasonic signal, which is unrivalled on the market. This makes **new applications** like **leak classification** possible.

3. FROM PROBE TO DIGITAL SENSOR

The sensors from SONOTEC not only differ visually from the airborne and structure-borne sound probes that are usual on the market – processes run in the sensor itself which contrast significantly with the previously known narrowband technology. Thus the broadband sensors simultaneously receive and process **ultrasonic signals from 20 to 100 kHz**. The **additional information** obtained in this way is very significant for the evaluation of the condition of machines and systems and paves the way for new applications in **maintenance 4.0**.

4. ROBUST HOUSING

The mobile testing device with a **tablet look** is characterized by its exceptional **robustness**. For especially harsh industrial environments there is a **protection set** that can provide additional protection for the hand-held device against impacts and external influences.

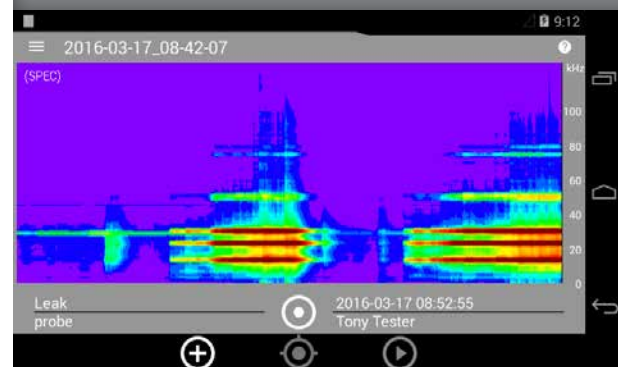
5. MULTI-FUNCTIONAL

Find leaks or detect partial discharges with the **airborne sound sensor**, which can be expanded with **various attachments** for large and small distances depending on the application. Just one click turns the SONAPHONE from a **leak detection device** into a hand-held device for **bearing testing**. You can perform functional testing of machines and steam traps with the **structure-borne sound** and **temperature sensor**.



The SONAPHONE ultrasonic testing device combines novel sensors with software that can be operated intuitively for preventive maintenance and is used above all for

- ✓ Leak Detection and Classification
- ✓ Condition Monitoring of Machinery
- ✓ Detection of Partial Discharges
- ✓ Tightness Testing
- ✓ Valve and Steam Trap Inspection.



6. LOCATE & CLASSIFY LEAKS

While other ultrasonic testing devices can only find **leaks**, SONAPHONE can also be used to **classify their size** at the same time. Based on methods of aeroacoustics SONOTEC developed the world's latest process for **classification** of leaks for the newest generation of SONAPHONE testing devices. The results of the patent-pending methods are plausible values for the **classification of the leak size** and for **estimation of the savings potential**.

7. SOFTWARE THAT IS INTUITIVE TO OPERATE

Paper records, which are error-prone and above all time-consuming, are a thing of the past with the modern testing device for Maintenance 4.0. The various **apps** accompany you through the entire testing process, **from planning, testing and documentation to analysis**. Whether leak classification, condition monitoring of machinery or steam trap testing – the parameters to be recorded are optimally adapted to the different tasks of preventive maintenance.

8. 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** for the test objects. Then **photograph** the potential weak point and **add markings**. You can also add **text comments** and **voice memos** and **set priorities**.

9. TEST REPORTS WITH A FEW CLICKS

Save time not only when recording but also when analysing the test. With a **few clicks** at the end of the test process you can create a **professional report** as a **PDF** or load the recorded data into the SONOTEC **PC data viewer**.

10. OPTIMIZE MAINTENANCE

With the SONAPHONE you can not only detect leaks in compressed air and gas systems and **reduce energy costs**; you can also detect partial discharges and **increase your operational safety**, detect early wear in bearings, **avoid unplanned downtimes** and assess the function of steam traps. Often preventing just a single downtime suffices to make up for the investment costs for the device.



SONOTEC preserves the right to change technical specifications without further notice. (Rev. 2 / 2016-08-29)

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