

Цифровое ультразвуковое испытательное устройство SONAPHONE III

Технические характеристики

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SONAPHONE®

Digital Ultrasonic Testing Device for Maintenance



Areas of Application:

Airborne and structure-borne

Leak detection | Electrical inspection | Condition monitoring | Steam trap test

Intuitive apps

Special apps that guide you through the entire test process

Bundle important information about the measurement point

Record the spectrogram and level and add photos, voice memos and text comments to the measurement point

Broadband ultrasound analysis

Record 20kHz to 100kHz simultaneously

Optional: modular software platform DataSuite

for Measurement point organization | Route planning | Trend analysis | documentation

Test reports with just a few clicks

Professional PDF reports created directly on the device

Touchscreen-Technologie

5-inch display with multi-touch screen

Robust housing in a smart design

Well suited for harsh industrial environments

Realizing Maintenance 4.0

Detect problems early and avoid downtimes

Airborne Sensors

BS10



- Range up to 8 m
- Interchangeable attachments
- Integrated laser pointer and LED light

BS30



- Range up to 35 m
- Integrated laser pointer and red dot sight
- Very good directivity and sensitivity

BS20



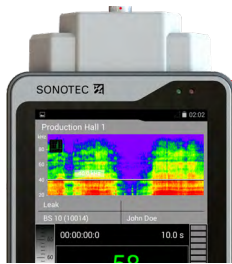
- Integrated infra-red thermometer for -70 °C to +380 °C object temperature
- Exchangeable waveguides

BS40



- Magnetic base for smooth and curved surfaces
- Optional: coupling via UNF 1/4" - 28 screw connection

Applications and Apps



LevelMeter®

App for all structure-borne and airborne sound applications



Condition Monitoring



→ Detect bearing damage early and optimize bearing lubrication

Electrical Inspection



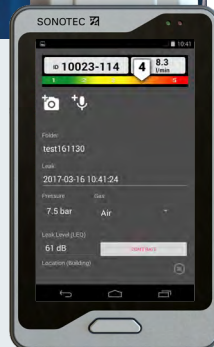
→ Detect partial discharge early and increase operational safety

Leak Detection and Assessment



LeakExpert®

- Special App for leak detection and assessment
- Patented method for leak classification and evaluation in l / min or CFM as well as in € or \$



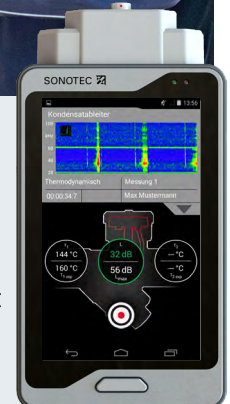
Reduction of energy costs for compressed air by up to 30 %

Steam Trap Testing



SteamExpert

- Special app for steam trap testing
- Optimized workflow for fast testing, including steam loss estimation in the web app



Reduce energy costs for generating steam by up to 20 % and increase process stability

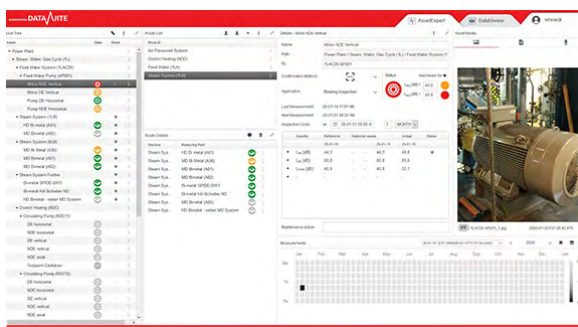
Special Apps

SONAPHONE DataSuite Software

Route Planning, Trending and Analysis



- Central data hub for the organization, presentation and analysis of ultrasonic tests
- Modern web app technology – available as a desktop, server or cloud application
- Organization of ultrasonic measurement data in measurement points and system trees
- Measurement point information in a modern dashboard view
- Easy creation and management of inspection routes for condition-based planning of maintenance activities
- Integrated DataViewer: display and analysis of ultrasonic test data using various dB levels, audio files, thresholds, status displays and trend analyses
- Integrated reporting tool for creating PDF test reports based on test routes and system status



AssetExpert

App for Route Planning with SONAPHONE®

- Special app for data acquisition, on-site evaluation and synchronization to the SONAPHONE DataSuite
- Date acquisition based on routes
- An overview of historical data for each test point
- Identification of measurement points via QR code or ID



Technical Data

General Data	
Device Design	Digital ultrasonic testing device with touchscreen
Frequency Range	1kHz to 128kHz
Display	5"-TFT-Display, Resolution WVGA 800Pixel × 480Pixel
Touchscreen	PCT, 5-Point Multi-Touch-Controller
Acoustic Output of Signals	Via loudspeakers or wired headphones
Storage	8GB Flash System Memory; 16GB Flash Internal Measurement Storage 2GB SDRAM
Connection and Interface	Ultrasonic sensors: Lemo; Charging power supply: USB 2.0 Micro-B Jack plug stereo headphones: 3.5mm; Memory for data export: slot for microSD card (up to 32GB)
Others	5MP camera on the back of the device; Integrated microphone; Integrated tilt sensor
Dimensions (B x H x T)	90mm × 174mm × 25mm (90mm × 174mm × 30mm with large battery)
Weight	370g (420g inkl. großem Akku)
Standard and Guidelines	EMV RL 2014/30/EU; WEEE RL 2012/19/EU; RoHS RL 2011/65/EU; ASTM E1002-2005

Power and Battery	
Battery	Type: Lithium polymer battery; 3,7V; 4,05Ah, 15Wh (large battery: 3,7V; 7,35Ah, 27,2Wh)
Power supply	Charging adapter with micro USB connection (5V, 2A)
Operating Time	In practical use: 8h... 12h, In continuous operation: 4h (or 8h with large battery)
Charging Time	~ 4h

Environmental conditions	
Operating temperature	-10°C ... +65°C (according to DIN EN 60068-2-2:2007)
Storage temperature	-20°C ... +65°C
Protection Class	IP40

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SONAPHONE partners get exclusive access to PC software updates and the latest SONAPHONE app versions.

Accessories	
Sensors	Airborne sensors: BS10, BS30; Structure-borne sensors: BS20, BS40
Apps for testing device	LeakExpert for leak detection; SteamExpert for steam trap testing; AssetExpert for route planning and measurement point organization
PC Software	SONAPHONE DataSuite

Inspection Software: LevelMeter App 2.0	
Details	• Level Record (in dB, reference p0 = 20µPa, temporal resolution: 16 ms per level value) • Spectrogram (temporal resolution: 16 ms per frequency spectrum) • Level wheel and level bar (current level) • Level table, with configurable arrangement, number (max. 5) and type of level displayed • The following can be displayed: • Sound pressure level and temperature • (T, only active with structure-borne sound sensor BS20) • L – instantaneous level • Leq – Equivalent continuous sound level • LF – time-weighted instantaneous level (smoothed) • Lpk – Peak level • Lmin – Minimum value of the instantaneous level • Lmax – Maximum value of the instantaneous level • CREST factor • Switch between portrait and landscape format • Measurement time
Functions	• Take photos to attach to data sets or measurements • Inserting markers immediately after the photo • Record voice memos for attaching to data sets and measurements • Storage of text comments • Select the current application (leak, bearing, etc.) for the context for measurements • Creation of PDF reports of selected records • Export of selected data records for further analysis on the computer (e.g. in the DataViewer)
Languages	Chinese, English, French, German, Italian, Japanese, Korean, Dutch, Polish, Portuguese, Russian, Spanish, Czech, Turkish, Hungarian





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