S&V Samford Newsletter

December 2018 Edition

S&V Samford Coming Event

Smart Speakers and Car Audio Measurements Seminar

The joint seminar on 'Smart Speakers and Car Audio Measurements', will be hold during the 15th -18th January 2019 in different areas.

Smarter speakers require smarter test methods!

The Smart Speaker seminar helps you to learn how to test smart speakers, robots, voice-controlled automotive audio and other IoT devices in the half-day partial seminar taught by industry expert, Steve Temme of Listen, Inc., with additional information on microphone and hardware products for testing these devices from G.R.A.S.

Although acoustic testing of smart speakers and other voice-activated devices presents challenges such as injecting and extracting response signals, time delays, and triggering the system using voice commands, it is still possible to measure the same parameters as traditional loudspeakers. In addition we can also measure microphone array performance, speakerphone performance and more.

We demonstrate how to do this, focusing on:

- Stimulating and capturing responses from a device where you don't have direct access to the microphone or speaker (open loop testing).
- Delays, asynchronous stimulus / acquisition, and working with the 'cloud'
- Testing with real world signals such as speech and music, and how to analyze results from these test stimuli
- Voice Recognition – key word spotting, wake word testing, directionality, and the effect of background noise on voice recognition performance
- Telephony – testing smart speakers for hands-free calling
- Microphones, artificial mouths and other hardware for smart speaker testing

Please contact our sales or fill in the registration form and reply us directly.
Registration form click here.

Customer Visits

If you need our visit, please contact us at sales@svsamford.com .

About Us

S&V Samford Ltd.
www.svsamford.com

We are devoted to provide quality and innovative solutions for Customers with interest in Sound and Vibration, Condition monitoring and Air Quality monitoring. With a team of passionate professionals, we provide dedicated support and continue education to our customers.

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Monthly Feature Products

- **Listen Inc.**
  Voice Controlled Audio Device Testing

- **VMI .**
  New Online Monitoring System

- **DataKustik**
  New ! CadnaA 2019

S&V Samford

Voice Controlled Audio Device Testing

Any Smart Device, Any Measurement

Smart device test hardware includeds:

Soundcheck systems

- AmpConnect™
- AudioConnect™
- SCM™ Measurement Microphones
- SoundConnect 2™
- Bluetooth Audio, MEMS, A2B and other Interfaces

Listen

Voice Controlled Audio Testing

Any Smart Device, Any Measurement

SoundCheck offers simple, fast and accurate 'open loop' testing of testing of any smart device – no matter what the form factor, functionality, connector, or additional features. It measures a full range of characteristics such as driver performance, microphone array performance, speech recognition and voice quality metrics via wired, wireless/Bluetooth, cloud, USB, or debug port connections.

SoundCheck's long history as a multipurpose electroacoustic test system means that Listen, Inc. has unrivalled expertise in the various tests used in voice activated audio devices - e.g. microphone array testing and beamforming, driver testing, speakerphone testing to TIA standards, active noise cancellation, voice quality measurements and speech recognition metrics. Furthermore, Listen, Inc. has been making 'open loop' measurements – measurements on devices with no direct access to the microphone or speaker for longer than any other test equipment supplier. This has resulted in extremely sophisticated algorithms for optimizing the speed and accuracy of open loop tests, as well as the expertise to guide you through the process.

Measurements include:

- Traditional measurements such as frequency response, directionally, distortion.
- Telephony tests to TIA standards
- In-situ measurements such as voice recognition in noisy environments
- Sound-intensity mapping
- Signal to noise with background noise simulation

The System

SoundCheck's modular combination of hardware and software is cost-effective, flexible and expandable.

SoundCheck software is powerful, fast and accurate, it measures every audio parameter from the R&D laboratory to the production line. With smart triggering and sophisticated post-processing algorithms to allow asynchronous measurement (commonly known as 'open loop testing'), SoundCheck offers incredible flexibility for testing using virtually any interface including Bluetooth, cloud-based systems, A2B® bus automotive interfaces and more. Complete flexibility in stimulus choice enables the use of real and complex test signals such as multitone, speech, and even music, to test devices.

Please contact us at sales@svsamford.com for more details

About Listen Inc.

https://www.listeninc.com/

Listen is a world leader in audio and electroacoustic test and measurement.

Founded in 1995, when its flagship product, SoundCheck® was launched, the company has pioneered electroacoustic measurement techniques for 20 years and sets the standard in the marketplace with powerful and innovative test methods and algorithms, fast and flexible testing, and excellent service and customer support.

Listen invests heavily in R&D, regularly presenting papers on new measurement techniques at conferences and refining its algorithms to remain at the cutting edge of measurement technology

VIBER MP™ - System

VMI New Online System – VIBER MP™ System

The system is an analogue system with machine protection capability. Monitor vibration, Bearing condition and Temperature using only one sensor! Economic efficient as always with VMI products!

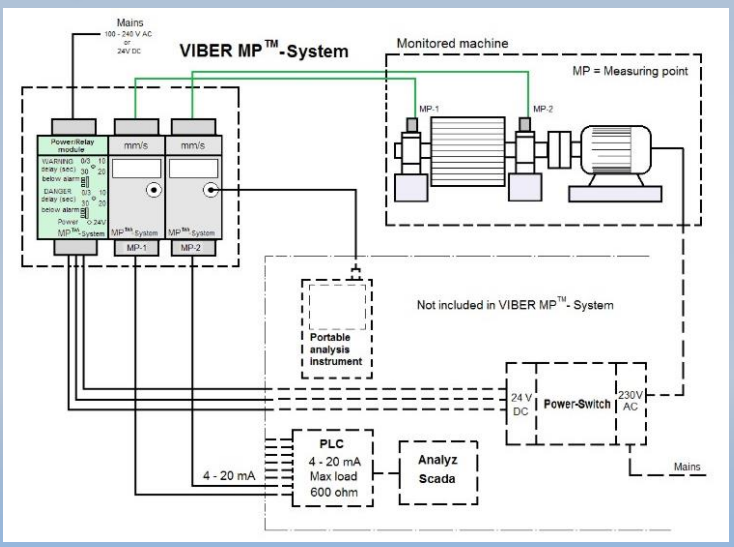
VIBER MP™ will give alarm or stop the machine if failure occurs and the settings for **warning** or **danger** are exceeded. It is continuously measures machine vibration, sensor and cable status, information can be transferred by an external **PLC** to the control room. **The System** has a secure local alarm transfer to the control room,(does not use internet).

VIBER MP ™ - System is available with the following configurations/channels;

- **Vibrations velocity:** mm/s, Measured with Accelerometer
- **Vibrations velocity:** mm/s, Measured with velocity sensor
- Bearing Condition acceleration, gBC-value, Measured with Accelerometer
- **Bearing Condition:** mm/s, Measured with Accelerometer
- **Displacement:** µm, Measured with proximity probe
- **Temperature:** °C, Measured with combined Temperature and Vibration sensor
- **Temperature:** °C, Measured with pt100 sensor

Can be mounted on DIN rail or in a separate Cabinet. Designed for all types of sensors.

Example on an installation;



About VMI

http://www.vmiab.com/

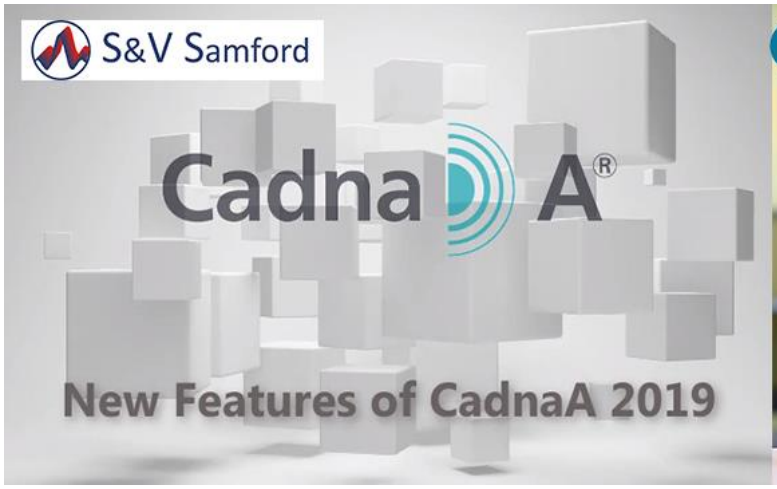
VMI's concept is to develop and manufacture vibration instruments and monitoring equipment, which are easy to use and achieve all necessary parameters for a reliable machine analysis.

VMI was one of the first to introduce measurement instruments with analysis functions. Instruments easy to understand and suited for rough and hard work with maintenance and condition controls.

They have most users when it comes to machine condition controls. We also sell most route instruments. We are convinced that it is because of the simplicity and price/performance ratio of our products.

VMI are now a company with competence within machine condition measurement, maintenance strategies, electronics, computers and software.

They focus on products and system for machine surveillance, condition measurement, balancing machines and applied software.



New ! CadnaA 2019

CadnaA is the leading software tool for calculation and assessment of environmental noise, as well as for the presentation of results to third parties. With the new CadnaA 2019, CadnaA becomes even more powerful. Read about the new features here and update to CadnaA 2019 now.

New Features of CadnaA 2019

- **Some new features of the Calculation/Configuration**
  - **ISO 9613-2:** additional calculation in third-octaves possible (requires emission data specified by third-octave spectra)
  - **CONCAWE**: new option "Worst case wind direction" uses the wind direction causing the highest level.
  - **CNOSSOS-EU:** French road surfaces added
  - **CRTN (UK):** now with three sub-sources (Application: Australia)
  - **CRN (UK)**: new train classes according to DEFRA report 'Calculation of Railway Noise 1995', January 2007
  - New "Radar" tab (requires option Radar) & new radar filter
- **CadnaA-Objects**
- **Some Further New Features**
  - Libraries **Sound Levels/Sound Reduction Indices/Absorptions:** extended input scheme for third-octave spectra
  - **dialog Result Table|Edit:** new option "Sort alphabetically by ID"
  - Coordinate System dialog (Options menu) and for geodetic transformation: A global coordinate system can now be selected by specifying the EPSG code.
- **Miscellaneous**
- **Import/Export**
  - **Dialog Database|Definition:** now XLSX import possible (besides import from ODBC sources)
  - **Import "Google Maps|Options":** A user-defined "API key" can be created which bypasses the GoogleMaps download restriction.
  - **New export format XLSX:** export of reports based on an MS-Excel template XLSX.
- **CadnaA-Options**
- **Bug Fixing**

For more details please contact us at sales@svsamford.com.

About DataKustik
https://www.datakustik.com/

DataKustik is one of the leading manufacturers of software for immission protection, based in Greifenberg, 40km west of Munich, Germany. DataKustik was founded 1991 as a spinn-off of ACCON GmbH, engineering consultants for sound and vibration technology, which has been developing and applying software for noise propagation since the early 1980s.

Today DataKustik and ACCON still form a strong alliance designing, developing, distributing and even applying software for immission protection on the highest technical level. Due to this close cooperation of acoustical experts and software engineering experts powerful software products are developed, which are rich in features and in technical innovations, but very user friendly, too.

See You ☺