

Happy Chinese New Year !



China (Chongqing) International Automotive Technology Expo 2017

Time: March. 22-24, 2017

Venue: Chongqing International Expo Center



S&V Samford February Edition Newsletter

Automotive Expo
汽車展覽會

We will be at the **China (Chongqing) International Automotive Technology Expo 2017** on the 22nd -24th March,2017

我們將於 2017 年 3 月 22 日至 24 日在中國（重慶）國際汽車技術展覽會 2017 展出有關 NVH 的產品。

Date : March. 22-24, 2017

日期 : 2017 年 3 月 22 日至 24 日

Venue : Chongqing International Expo Center , Booth no. 856

地點 : 重慶國際博覽中心攤位 856 號

Time : 09:00 – 16:30

時間 : 早上九時至下午四時三十分

We hope to see you there!

For more Details , Please Visit <http://e.chautotechexpo.com/>
有關詳情，請流覽 <http://e.chautotechexpo.com/>

Monthly Feature Products

G.R.A.S. Lownoise Microphone system – 40HF

Listen – Open Loop Microphone Measurement

ONO SOKKI Digital Linear Gauge Baby Sensor

Automation Imager MN4000

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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Measure beyond the threshold of human hearing

Have you ever heard a snail eating salad leaves or a caterpillar crawl on a glass? Professor in psychoacoustics Janina Fels has teamed up with Kopfball-Reporter Adrian Pflug to find out if it is possible to hear a snail eat. To measure the sound we have provided them with a 1" Lownoise Microphone System the G.R.A.S. 40HF. **Let's check out with the [VIDEO](#) !**



Typical applications and use

- Very Low sound pressure measurement
- Lownoise product measurements
- Lowlevel Sound power measurements
- Measurements on hard-disk drives, computer products, quiet rooms etc.

Design

The G.R.A.S. 40HF comprises:

- A special high-sensitive 1-inch (23.77 mm) Condenser Microphone Type 40EH.
- A special 1-inch (23.77 mm) Low-noise Preamplifier Type 26HF

The preamplifier and microphone are an individually-matched combination. To complete the measuring system, a special power module is required and is available from G.R.A.S., i.e. G.R.A.S. 12HF for single-channel measurements or G.R.A.S. 12HM for multi-channel (1 to 10) measurements. The chosen power module provides all necessary voltages for powering the preamplifier(s) as well as polarizing the microphone(s).

Specification

Freq range	:10 Hz to 10 kHz
Dynamic range	:-2 dB(A) to 110 dB
Sensitivity	:1.1 V/Pa

[Read More](#)

About G.R.A.S

<http://www.gras.dk/>



Establishment in 1994.

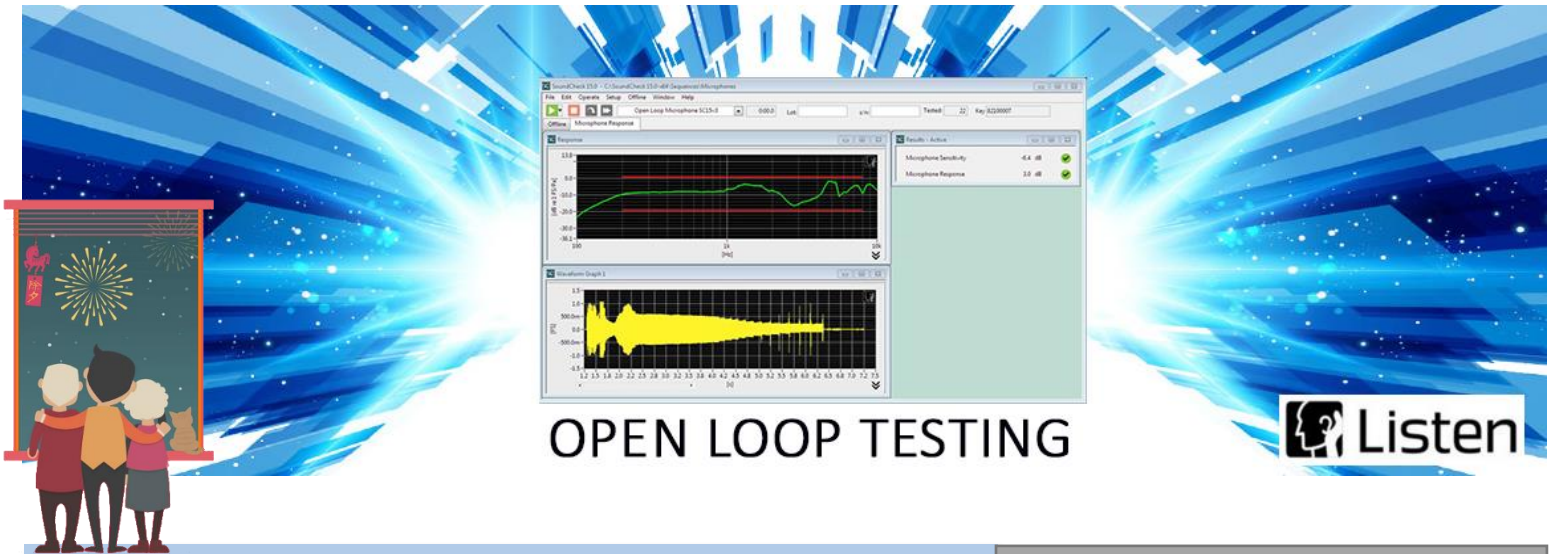
G.R.A.S. have been 100% dedicated to developing and manufacturing **high-quality measurement microphones** and related acoustic equipment.

G.R.A.S founded by the Danish acoustics pioneer *Gunnar Rasmussen* who for more than 60 years has contributed to the world of sound and vibration with his unique ideas and designs.

Related Products:

- [LEMO Lownoise Hemisphere kit](#)
- [Lownoise Windscreen](#)
- [10-channel power Module for lownoise systems](#)





OPEN LOOP TESTING

Open Loop Microphone Test

A test sequence for measuring a microphone on a device such as a smartphone or tablet where there is no direct connection between the microphone and the computer

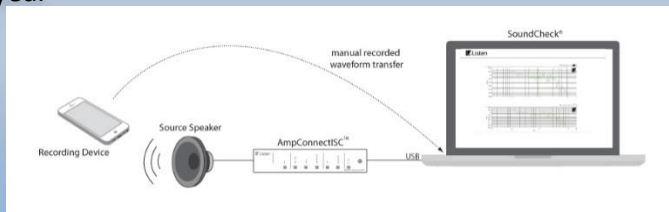
This sequence demonstrates the two most common microphone measurements, frequency response and sensitivity, on a microphone embedded in a recording device. Typically when measuring a microphone the response of the device can be captured simultaneously with the stimulus. However, with devices such as voice recorders and wireless telephones forming a closed loop can be cumbersome or impossible. This sequence demonstrates how to measure such a device by recording the signal on the device under test, transferring that recording to the computer running SoundCheck and then using a Recall step to import the recorded waveform and analyze it.

This specific sequence, v3, is an improvement on the prior versions. The v1 release (SoundCheck 12) required that the audio file containing the recorded response waveform be manually windowed outside of SoundCheck before being analyzed. The v2 release (SoundCheck 14) utilized a new feature in SoundCheck 14, using values from the memory list to semi-automatically trim the waveform before analysis. This v3 release completely automates waveform editing.

The final display shows two graphs.

The top X-Y graph displays the data at its absolute level in dBFS/Pa (since the imported recording is digital, the results will be in FS or dBFS rather than Volts or dBV). The lower graph shows the windowed recorded signal analyzed by the software. In addition the calculated sensitivity at 1 kHz and the frequency response margin is also displayed.

[Read More](#)



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.



Required Equipment

Hardware:

- [AmpConnect](#) OR
- [-SC Amp Power amplifier plus](#)
- [-Audio Interface](#)
- Source speaker

Software:

- SoundCheck Basic or higher, version 15.0 or later
- 2004 – Post Processing

Digital Linear Gauge Baby Sensor



ONO SOKKI

ONO SOKKI Digital Linear Gauge Baby Sensor

Industrial products are being made smaller and smaller these days. The BS-1210/1310 linear gauge baby sensor is the best solution for measurement of such a small product. With the compact body, many sensors can be installed closely together even in a limited space.

The BS-1210/1310, designed based on our long-selling previous model the BS-102/112 series, measures dimensions, displacements and travels in high durability, stability and high accuracy.

Features

The Digital Linear Gauge Baby Sensor are thin and small space-saved design. Easy setup and maintenance.

They are conformed to the protection class IP66, meeting the dust-and splash-proof test requirements. (previous model : IP64). They can achieve 30 million times of sliding (based on our internal durability test) (previous model: 10 million times of sliding) and expanded in operating temperature range from 0 to 50°C (previous model: 5 to 40 °C)

Specification

Model	BS-1210	BS-1310
-Measurement range	10 mm	10 mm
-Resolution	10 μm	1 μm
-Accuracy (at +20 °C)	3 μm	3 μm
-Operating temperature range	0 to +50 °C	0 to +50 °C
-Storage temperature range	-10 to +65 °C	-10 to +65 °C
-Outer dimensions	94.5 x 29 x 13 mm	94.5 x 29 x 13 mm
-Weight (including cable)	Approx. 110 g	Approx. 110 g

[Read More](#)

About Ono Sokki

<https://www.onosokki.co.jp/English/english.htm>



Ono Sokki is a measuring instrument manufacturer focused on the tasks of applying digital technology to measurement applications, and has a proud history in that field, including development of Japan's first digital counter 40 years ago, and myriad products using digital technology.

Their products, reputed to be "World First" or "Industrial Standard" in various fields, reflect their constant pursuit of original technologies. Under this motto of "Change & Challenge for Solving the World's Toughest Problems", ONOSOKKI aim to build a network-oriented company supported by human resources backed by high technologies.



New Product: Automation Imager – MN4100



Automation Imager MN4100

Automation Imager MN4100

The MN4100 Dual Vision is **small and light** enough to be picked up with two fingers, this Automation Imager, provides thermal imaging capability to new or existing control systems. With diverse applications, **ranging from plant automation, security, home automation and marine**, MN4100 is the **flexible choice**. Provided with **prewritten PLC Function Blocks for Communication, Measurement and Analysis**, MN4100 is simple to integrate into any Modbus/TCP compatible control system.

With diverse applications, ranging from plant automation, security, home automation and marine, MN4100 is the flexible choice. Provided with prewritten PLC Function Blocks for Communication, Measurement and Analysis, MN4100 is simple to integrate into any Modbus/TCP compatible control system.

With a standard measurement range of -10 to +120C (14 to 248F), **MN4100 is the low cost solution for your infrared automation needs**. PLC enabled using Modbus/TCP, MN4100, give your existing plant network a dual vision capability by efficiently utilizing the processing power of your existing controllers.

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Specification

IR Resolution	: 80X60 pixels
Measurement Range	: -10 to +120C (14-248F)
Accuracy	: +/-2C or +/-2%
Visual Resolution	: 640x 480 pixels
Dual Vision Field of View (FOV)	: 63° Diagonal
Illumination	: LED Flash (800Lumins)
Visual Sensitivity	: 1.0 LUX without illuminator

[Read More](#)

About CorDEX

<http://www.cord-ex.com/>

CorDEX are leaders in the innovation and manufacture of instruments used every day in the hazardous environments, which makes CorDEX as the authority in Intrinsically Safe Instrumentation. CorDEX invest in product development and certification to make sure customers have the confidence that you need to stay safe. Therefore, CorDEX offer more than just safe, performance and accuracy but also give customers the confidence to do the job.

Related Products:

- [Digital Camera](#)
- [Infrared Camera](#)
- [Thickness Gauge UT5000](#)
- [Intrinsically Safe work light](#)
- [Flash Light](#)
- [Work Lantern](#)
- [Smart Infrared Windows](#)



See You 😊