

Copenhagen, 8 February 2019

## **PRESS RELEASE**

### **GRAS releases a range of new acoustic sensors for automotive NVH testing**

**GRAS Sound & Vibration, the world leader in automotive acoustic sensors, today announced the launch of the 147AX CCP Rugged Pressure Microphone for engine noise testing and the 147EB CCP X-Rugged Microphone for wheelhouse brake noise testing. Together with the versatile 146AE CCP Free-field microphone, GRAS now has the strongest and most comprehensive range of microphones for all automotive NVH applications.**

#### **Developed closely together with global OEMs**

Both new products are the result of close collaboration with leading industry players.

The GRAS **147AX** CCP Rugged Pressure Microphone has been developed together with Volvo Cars in Sweden. It is a surface microphone optimized for cold and hot engine noise testing allowing for more efficient testing and repeatable measurements. Furthermore, it introduces a revolutionizing form factor, which together with a unique mounting system and new measurement methods, developed with Volvo Cars, ensures accurate and reliable data.

The **147EB** CCP X-Rugged Microphone Set is an extremely robust microphone specially designed and optimized for on-road brake noise testing. The microphone has a three-layer protection of the diaphragm and has been tested with Volkswagen in Germany where it has undergone more than 10,000 miles of on-road testing on all surfaces and in all weather conditions.

According to Product Manager Jan Hansen “GRAS has come up with new products targeted at specific applications that revolutionize existing test methods and considerably save time rigging up. We have tried to address the most common challenges as experienced by industry professionals within each application area by way of mapping these from start to finish”.

Together with the standard **146AE** ½" CCP Free-field Microphone Set, these new products make up a full portfolio of microphones covering all application areas within automotive NVH testing.

- 147AX is recommended for cold and hot engine noise testing
- 147EB is recommended for on-road brake noise testing
- 146AE is recommended for testing pass-by noise, road noise, buzz, squeak and rattle noise as well as power train noise.

####

For further information, please contact:

Martin M. Khan  
Global Marketing Director  
Phone: +45 5157 3095

or write to [gras@gras.dk](mailto:gras@gras.dk)

## New NVH Microphones

Versatile NVH  
Microphone



Engine Noise  
Microphone



Wheelhouse Brake  
Noise Microphone



### About GRAS Sound & Vibration:

*GRAS is a leading manufacturer of state-of-the-art measurement microphones. We serve R&D, QA and production units within aerospace, automotive, audiology, and consumer electronics with critical demands to microphone accuracy and repeatability.*

*GRAS is represented through subsidiaries and distributors in more than 40 countries.*

*Read more at [www.gras.dk](http://www.gras.dk)*