

Microphone Set

for low SPL applications



G.R.A.S.
SOUND & VIBRATION

For low sound pressure level applications

Introduction

The G.R.A.S. 46BL is a high-performance 1/4" pressure microphone set for measuring low sound pressure levels in the medium frequency range. The set is assembled and sealed with a label in our clean-room environment.

- *High sensitivity*
- *Low noise floor*
- *WS2P/3P standardized*
- *Constant Current Power (CCP)*
- *TEDS IEEE 1451.4 compatible*

Design

The challenge was to design a CCP 1/4" microphone set with a reduced noise floor for low sound pressure applications. We achieved this by optimizing the microphone with a new diaphragm and back plate, without compromising the

mechanical limits of the IEC 61094 standard. By combining this cartridge with our unique and proven preamplifier design we are able to offer you the probably most reliable measurement microphone set in the industry today.

Typical applications

The frequency range and high sensitivity make this set very suitable for QC of consumer electronics and related micro-speakers. Higher-order harmonic distortion measurements at lower levels are now made possible, without disturbing the acoustic field and thereby not influencing the performance of the tested device.

The small size and specified frequency range makes it ideal for SPL diagnostics in confined spaces and situations, where it is difficult to judge the direction of the acoustic field.



1/4" lownoise
G.R.A.S. 46BL

Frequency range	4 Hz - 20 kHz
Dynamic range	25 dBA - 146 dB
Sensitivity	18 mV / Pa

We Make Microphones

As the only 100% focused developer and manufacturer of measurement microphones, our goal is to provide our customers with the right sensor for the right application. Whether this is realized through a standard, special or customized sensor solution, our concern and priority are always to help our customers

achieve the best possible measurement results – every time.

All our microphones are based on our founder Gunnar Rasmussen's innovative and world-famous measurement microphone design. Designs that have set the

reference for all measurement microphones for more than 50 years. This evolution enables us to offer 5 years microphone warranty and the appreciated diaphragm replacement option. Find more information and your local G.R.A.S. partner at gras.dk