

# GRAS 90AB

## Basic Audiometer Calibration System



Freq range:  
ANSI: S.1.40, S.1.43, S.1.11, S.3.6  
IEC: 60318-1 & -2

---

The GRAS Audiometer Calibration Systems are configured to meet the requirements of modern audiometer calibration. They are easy and fast to set up and control, and can be upgraded as your calibration needs change.

The GRAS 90AB Basic Audiometer Calibration system is configured for the stationary calibration lab and will also calibrate supra- and circum-aural audiometric earphones like TDH-39, HDA 200, HDA280 and HDA 300.

The configuration includes a GRAS Audiometer Calibration Analyzer, two complete sets of standardized ear simulators and a coupler platform.

### Typical Applications and Use

Typical users are:

- Owners of Audiometers
  - Hospitals, ENT-department (ordinary and military)
  - Hearing clinics
  - Hearing aid fitters / dispensers
- Calibration service providers
  - Test houses / Certification labs
  - On-site calibration providers

Typical applications and uses:

- Calibration of supra- and circum-aural and insert earphones
- Free-field calibration and audiometric booth verification
- Modular artificial ear systems according to standards
- Dedicated audiometer calibration analyzer

ANSI standard		S1.40, S1.43, S1.11, S3.6
IEC standard		60318-1 & 60318-2

GRAS Sound & Vibration reserves the right to change specifications and accessories without notice.

## Included

GRAS 43AF-S4	Artificial Ear w/NMS 9A 6cc coupler
GRAS AA0020-CL	LEMO 1B 7-pin Female - LEMO 1B 7-pin Male, Extension cable, custom length
GRAS 40AG	1/2" Ext. Polarized Pressure Microphone, High Frequency
GRAS HW1001	Audiometer Calibration Analyzer
GRAS RA0039	IEC 60318 Eae Simulator
GRAS EL0001	Battery Alkaline LR6-AA 1.5 V (4 pcs incl.)
GRAS LI0039	Manual

## Optional

GRAS OP0001	Insert Earphone Option (IEC60318-5 2cc Reference Coupler RA0113 for 1" Microphone)
GRAS OP0002	Free-field Calibration Option (Free-field microphone 46AF, 10 m LEMO cable, tripod adapter and tripod)
GRAS OP0003	System Verification Option (Sound calibrator 42AB and force gauge)
GRAS KM0078	Suitcase

GRAS Sound & Vibration reserves the right to change specifications and accessories without notice.

# GRAS Worldwide

Subsidiaries and distributors in more  
than 40 countries

**HEAD OFFICE, DENMARK**  
**GRAS SOUND & VIBRATION**  
Skovlytoften 33  
2840 Holte  
Denmark  
Tel: +45 4566 4046  
[www.gras.dk](http://www.gras.dk)  
[gras@gras.dk](mailto:gras@gras.dk)

**USA**  
**GRAS SOUND & VIBRATION**  
5750 S.W. Arctic Drive  
Beaverton, OR 97005  
Tel: 503-627-0832  
Toll Free: 800-231-7350  
[www.gras.us](http://www.gras.us)  
[sales@gras.us](mailto:sales@gras.us)

**CHINA**  
**GRAS SOUND & VIBRATION**  
Room 303, Building T6  
Hongqiaohui, 990, Shenchang Road  
Minhang District, Shanghai  
China, 201106  
Tel: +86 21 64203370  
[www.gras.com.cn](http://www.gras.com.cn)  
[cnsales@gras.dk](mailto:cnsales@gras.dk)



## ABOUT GRAS SOUND & VIBRATION

GRAS is a worldwide leader in the sound and vibration industry. We develop and manufacture state-of-the-art measurement microphones to industries where acoustic measuring accuracy and repeatability is of utmost importance in R&D, QA and production. This includes applications and solutions for customers within the fields of aerospace, automotive, audiology, and consumer electronics. GRAS microphones are designed to live up to the high quality, durability and accuracy that our customers have come to expect and trust.

**GRAS** Sound  
& Vibration