

# GRAS 90AA

Audiometer Calibration System Equipment



Freq range:

ANSI: S.1.40, S.1.43, S.1.11, S.3.6

IEC: 60318-1 & -2

The GRAS 90AA Audiometer Calibration System is easy and fast to set up and control and can be upgraded as your calibration needs change. From quick measuring of frequencies and test signal levels to harmonic distortion and representation of the values in one table together with the third octave band spectrum.

## 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

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

## Design

The GRAS 90AA Audiometer Calibration System is configured to meet the requirements of modern audio-meter calibration. It is easy and fast to set up and control, and can be upgraded as your calibration needs change. Two standard packages are available and several options can be added, depending on the type and features of the audiometer and respective ear-phones connected.

The 90AA Audiometer Calibration System includes artificial ears for TDH-39/49 and HDA-200 and an audiometer calibration analyzer.

ANSI standard	S1.40, S1.43, S1.11, S3.6
---------------	---------------------------

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



## Included

GRAS 43AA-S7	IEC 60318-1 & 2 Artificial Ear
GRAS 43AF-S4	Artificial Ear w/NMS 9A 6cc coupler
GRAS HW1001	Audiometer Calibration Analyzer
GRAS 42AG	Multifunction Sound Calibrator
GRAS RA0184	Force Gauge (Newtonmeter)
GRAS KM0078	Audiometer Calibration System Suitcase
GRAS EL0001	Battery Alkaline LR6-AA 1.5V (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 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.GRASacoustics.com](http://www.GRASacoustics.com)  
[gras@grasacoustics.com](mailto:gras@grasacoustics.com)

**USA**  
**GRAS SOUND & VIBRATION**  
9290 SW Nimbus Avenue  
Beaverton, OR 97008  
Tel: 503-627-0832  
Toll Free: 800-231-7350  
[www.GRASacoustics.com](http://www.GRASacoustics.com)  
[sales-usa@grasacoustics.com](mailto:sales-usa@grasacoustics.com)

**UK**  
**GRAS SOUND & VIBRATION**  
Unit 115, Gibson House,  
Ermine Business Park, Huntingdon,  
Cambridgeshire, PE29 6XU  
Tel: +44 (0) 7762 584 202  
[www.GRASacoustics.com](http://www.GRASacoustics.com)  
[sales-uk@grasacoustics.com](mailto:sales-uk@grasacoustics.com)

**CHINA**  
**GRAS SOUND & VIBRATION**  
Room 315, RuiBo Center(T1)  
Lane683, Shenhong Rd,  
Minhang District,  
Shanghai, China, 201107  
Tel: +86 21 64203370  
[www.GRASacoustics.cn](http://www.GRASacoustics.cn)  
[cnsales@grasacoustics.com](mailto:cnsales@grasacoustics.com)



## 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 and related equipment for industries where acoustic measuring accuracy and repeatability are of the utmost importance. This includes applications and solutions for customers within the fields of aerospace, automotive, audiology, consumer electronics and other highly demanding industries. GRAS microphones are designed to live up to the high quality, durability and accuracy that our customers have come to expect, trust and require.

GRAS Sound & Vibration is represented through subsidiaries and distributors in more than 40 countries and is part of Axiometrix Solutions, a leading test solutions provider comprised of globally recognized measurement brands. Read more at [www.grasacoustics.com](http://www.grasacoustics.com)

[grasacoustics.com](http://grasacoustics.com)

**GRAS**  
An Axiometrix Solutions Brand