

# GRAS 43AA-S3

Ear Simulator Kit incl. 26AB preamplifier



Connection: 200 V/LEMO

Volume: Complex

Dyn range: 25 dB(A) to 164 dB

ANSI: S3.7 IEC: 60318-1 & -2

The GRAS 43AA-S3 Ear Simulator Kit is a complete test jig for acoustical measurements on telephone handsets and earphones. It includes an IEC 60318 Ear Simulator RA0039 which is individually calibrated according to the ITU-T Recommendation P.57 (08/96) "Series P: Telephone transmission quality, objective measuring apparatus: artificial ears.

The GRAS 43AA-S3 is a complete test jig for acoustical measurements on telephone handsets and earphones in accordance with:

- IEC60318-1 & -2 Electroacoustics – Simulators of human head and ear – Part 1: Ear simulator for the calibration of supraaural earphones, 1998-07
- ITU-T Recommendation P.57 (08/96) Series P: Telephone transmission Quality, Objective measuring apparatus: Artificial Ears

It consists of the following components:

- IEC 60318-1 & -2 [GRAS RA0039 Ear Simulator](#)
- [GRAS 40AG ½" Pressure Microphone](#)
- [GRAS 26AB ¼" Preamplifier](#)
- [GRAS RA0052 Test Jig](#)
- Mounting plates for circum-aural and supra-aural headphones

The Test Jig has an adjustable spring-loaded arm to exert a variable force on the test object.

A prepolarized version is available, [GRAS 43AA-S2](#).

An externally polarized version with a [GRAS 26AC-1](#)  $\frac{1}{4}$  preamplifier is available, [GRAS 43AA](#).

# Specifications

|  |               |                        |
|--|---------------|------------------------|
| Theoretical dynamic range lower limit with GRAS preamplifier                               | dB(A)         | 25                     |
| Theoretical dynamic range upper limit with GRAS preamplifier @ +120 V / ±60 V power supply | dB            | 164                    |
| Set sensitivity @ 250 Hz (±2 dB)   | mV/Pa         | 12                     |
| Set sensitivity @ 250 Hz (±2 dB)   | dB re 1V/Pa   | -38.5                  |
| Temperature range, operation   | °C / °F       | -30 to 60 / -22 to 140 |
| Temperature coefficient @250 Hz  | dB/°C / dB/°F | -0.01 / -0.006         |
| Humidity range non condensing  | % RH          | 0 to 80                |
| ANSI standard  |               | S3.7                   |
| ITU-T recommendations  |               | P.57 Type 1            |
| CE/RoHS compliant/WEEE registered  |               | Yes/Yes/Yes            |
| Connector type   |               | 3 m 7-pin LEMO         |
| Weight   | g / oz        | 1.65 / 58.202          |

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

## Miscellaneous

[GRAS RA0196](#)

High-tension springs (set of two)

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# GRAS Worldwide

Subsidiaries and distributors in more than 40 countries

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## 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)

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