GRAS 43AA-S3

Ear Simulator Kit incl. 26AB preamplifier





Connection: 200 V/LEM0 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.



Technology

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, <u>GRAS 43AA-S2.</u>

An externally polarized version with a <u>GRAS 26AC-1</u> ½ preamplifier is available, <u>GRAS 43AA.</u>



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 recommondations		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.



Ordering Info

Miscellaneous

GRAS RA0196 High-tension

High-tension springs (set of two)

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 gras@grasacoustics.com

USA

GRAS SOUND & VIBRATION

5750 S.W. Arctic Drive Beaverton, OR 97005 Tel: 503-627-0832 Toll Free: 800-231-7350 www.grasacoustics.com sales-usa@grasacoustics.com

АИІН

GRAS SOUND & VIBRATION

Room 303, Building T6 Hongqiaohui, 990, Shenchang Road Minhang District, Shanghai China. 201106 Tel: +86 21 64203370 www.gras.com.cn



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