GRAS 43AE

Ear Simulator Kit According to ITU-T Rec. P57 Type 3.2

Connection: 200 V/LEMO
Volume: Complex
Dyn range: 26 dB(A) to 164 dB
ANSI: S3.7

The GRAS 43AE Ear Simulator Kit according to ITU-T Rec. P57 Type 3.2 is for acoustically testing supra-aural earphones, telephone handsets and loudspeakers, and complies with the international requirements: ITU-T Recommendation P.57 (08/96) “Serie P: Telephone Transmission quality. Objective measuring apparatus: Artificial ears”.

GRAS Sound & Vibration
Skovlytoften 33, 2840 Holte, Denmark
www.grasacoustics.com

The 43AE is an IEC 60318-4 (60711) Ear Simulator for acoustical testing of supra-aural earphones, telephone handsets and loudspeakers in accordance with

- IEC60318-4 Occluded-ear simulator for the mesurem,ent of earphones coupled to the ear by ear inserts
- ITU-T Recommendations P57 (08/96) Series P: Telephone transmission quality, Objective measuring apparatus: Artificial ears

The 43AE comprises:

- IEC 60318-4 GRAS RA0045 Ear Simulator
- GRAS 26AC-1 ¼" Preamplifier
- GRAS GR0010 ¼" - ½" Adapter
- GRAS RA0056 Low-leak Pinna Simulator
- GRAS RA0057 High-leak Pinna Simulator

Theoretical dynamic range lower limit with GRAS preamplifier	dB(A)	25
Theoretical dynamic range upper limit with GRAS preamplifier @ +28 V / ±14 V power supply	dB	153
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
Coupler volume	mm^3	1260 @ 500 Hz
Resonance frequency	kHz	Low 713.8, High 1570
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 75
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	1.05 / 37.038

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

Included

GRAS RA0045	IEC 60711 coupler with microphone included
GRAS 26AC-1	¼" Preamplifier
GRAS GR0010	¼" - ½" Adapter
GRAS RA0056	Low-leak Pinna Simulator
GRAS RA0057	High-leak Pinna Simulator

Optional

GRAS 12AK	Power Module
GRAS 42AA	Pistonphone

Miscellaneous

GRAS RA0119	Pistonphone adapter

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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

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

CHINA
GRAS SOUND & VIBRATION
Room 303, Building T6
Hongqiaohui, 990, Shenchang Road
Minhang District, Shanghai
China. 201106
Tel: +86 21 64203370
www.grasacoustics.cn
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

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