

GRAS 43AD

Ear Simulator Kit According to ITU-T Rec. P57 Type 1



Connection: 200 V/LEMO
Volume: Complex
Dyn range: 25 dB(A) to 164 dB
ANSI S3.7
IEC: 60318-1

The GRAS 43AD Artificial Ear is a complete assembly for acoustical measurements on acoustical transmitters and loudspeakers. It can be integrated with a telephone test head or permanently installed on a production test line.

The GRAS 43AD is a complete assembly for acoustical measurements on acoustical transmitters and loudspeakers in accordance with:

- IEC 60318-1 & -2 Electroacoustics – Simulators of human head and ear – Part 1: Ear simulator for the calibration of supra-aural earphones, 1998-07
- ITU-T Recommendation P.57 (08/96) Series P: Telephone transmission quality, Objective measuring apparatus: Artificial ears.

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The 43AD comprises:

- IEC 318 [GRAS RA0039 Ear Simulator](#)
- [GRAS 40AG ½" Pressure Microphone](#)
- [GRAS 26AK ¼" Preamp](#)
- Snap coupling GR0332 and RA0523
- Mounting plates for circum-aural and supra-aural headphones

A prepolarized version is available, [GRAS 43AD-S1](#).

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
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
IEC standard		60318-1 (former 60318)
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.

Included

GRAS RA0039	IEC 318 Ear Simulator
GRAS 40AG	½" Pressure Microphone, Wide Frequency
GRAS 26AK	½" Preamplifier
GRAS AA0008	3 m Extension Cable
GR0332	Snap Coupling (female)
GR0336	Snap Coupling (male)
GR0339	for testing earphones fitted with fluid cushions

Optional

GRAS 12AK	Power Module
GRAS 42AA	Pistonphone

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GRAS Worldwide

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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

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