GRAS 43AC-S1

CCP Ear Simulator Kit According to IEC 60318-4





Connection: 0 V/CCP Volume: 1260 @ 500 Hz Dyn range: 25 dB(A)to 150 dB ANSI: S3.7 IEC: 60318-4

GRAS Sound & Vibration Skovlytoften 33, 2840 Holte, Denmark www.grasacoustics.com The GRAS 43AC-S1 CCP Ear Simulator Kit according to IEC 60318-4 with TEDS is a complete test-jig for acoustical measurements on earphones coupled to the ear by inserts such as tubes and ear moulds.



Technology

The GRAS 43AC-S1 is a complete test jig for acoustically testing earphones coupled to the ear via inserts such as tubes and ear moulds and complies with the following international requirements:

• IEC 60318-4: Occluded-ear simulator for the measurement of earphones coupled to the ear by ear inserts.

The 43AC-S1 comprises:

- GRAS RA0045-S1 Ear Simulator
- <u>GRAS 40A0</u> 1/2" Prepolarized Pressure Microphone
- <u>GRAS 26CB</u> 1/4" CCP Standard Preamplifier with Microdot Connector
- GRAS RA0001 Right-angled Adapter
- GRAS RA0052 Test Jig
- GRAS AA0070 3m Microdot-BNC Cable

The Test Jig has an adjustable spring-loaded arm to exert a variable force on the test object. Click <u>GRAS RA0045-S1</u> for more information about the RA0045-S1 Ear Simulator.

An externally polarized version is available, <u>GRAS</u> <u>43AC</u>.

TEDS Compatibility

43AC-S1 is IEEE 1451.4 TEDS v. 1.0 compliant. If your measurement platform supports Transducer Electronic Data Sheets (TEDS), you will be able to read and write data like properties and calibration data.

Specifications

GRAS 43AC-S1 CCP Ear Simulator Kit According to IEC 60318-4

Theoretical dynamic range lower limit with GRAS preamplifier	dB(A)	25
Theoretical dynamic range upper limit with GRAS CCP preamplifier	dB	150
Set sensitivity @ 250 Hz (±2 dB)	mV/Pa	12
Set sensitivity @ 250 Hz (±2 dB)	dB re 1V/Pa	-38.5
Coupler volume	mm³	1260 @ 500 Hz
Resonance frequency	kHz	13.5
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 75
ANSI standard		S3.7
IEC standard		60318-4 (former 60711)
CE/RoHS compliant/WEEE registered		Yes/Yes/Yes
Connector type		Microdot 10/32
Weight	g / oz	1.55 / 54.675

Page: 3

.

.

Ordering info

GRAS 43AC-S1 CCP Ear Simulator Kit According to IEC 60318-4

Optional Items

<u>GRAS RA0196</u>

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

GRAS SOUND & VIBRATION 9290 SW Nimbus Avenue Beaverton, OR 97008 Tel: 503-627-0832 Toll Free: 800-231-7350 www.GRASacoustics.com sales-usa@grasacoustics.com

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 315, RuiBo Center(T1) Lane683, Shenhong Rd, Minhang District, Shanghai, China, 201107 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



grasacoustics.com