

# GRAS 43AC-S7

高分辨率耳模拟器套件 CCP



Connection: 0 V/CCP  
Volume: 1260 @ 500 Hz  
Dyn range: 44 dB(A) to 166 dB  
ANSI: S3.7  
IEC: 60318-4

带 TEDS 的 GRAS 43AC-S7 耳模拟器套件是一个完整的测试夹具，用于对通过导管和耳罩等插入物连接到耳朵上的耳机进行高达 50 kHz 的高分辨率测量。

The GRAS 43AC-S7 Ear Simulator Kit is a complete test jig for acoustically testing earphones coupled to the ear via inserts such as tubes and ear molds and is compatible with the following international requirements:

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

43AC-S7 uses the RA0404 Hi-Res Ear Simulator which extends the useful frequency range to 50 kHz. Read more about the RA0404 [here](#).

The 43AC-S7 comprises:

- [GRAS RA0404](#) Prepolarized Hi-Res Ear Simulator
- [GRAS 40BD](#) 1/2" Pressure Microphone (included in RA0404)
- [GRAS 26CB](#) 1/4" Preamplifier
- [GRAS RA0001](#) Right-angled Adapter
- [GRAS RA0052 Test Jig](#)

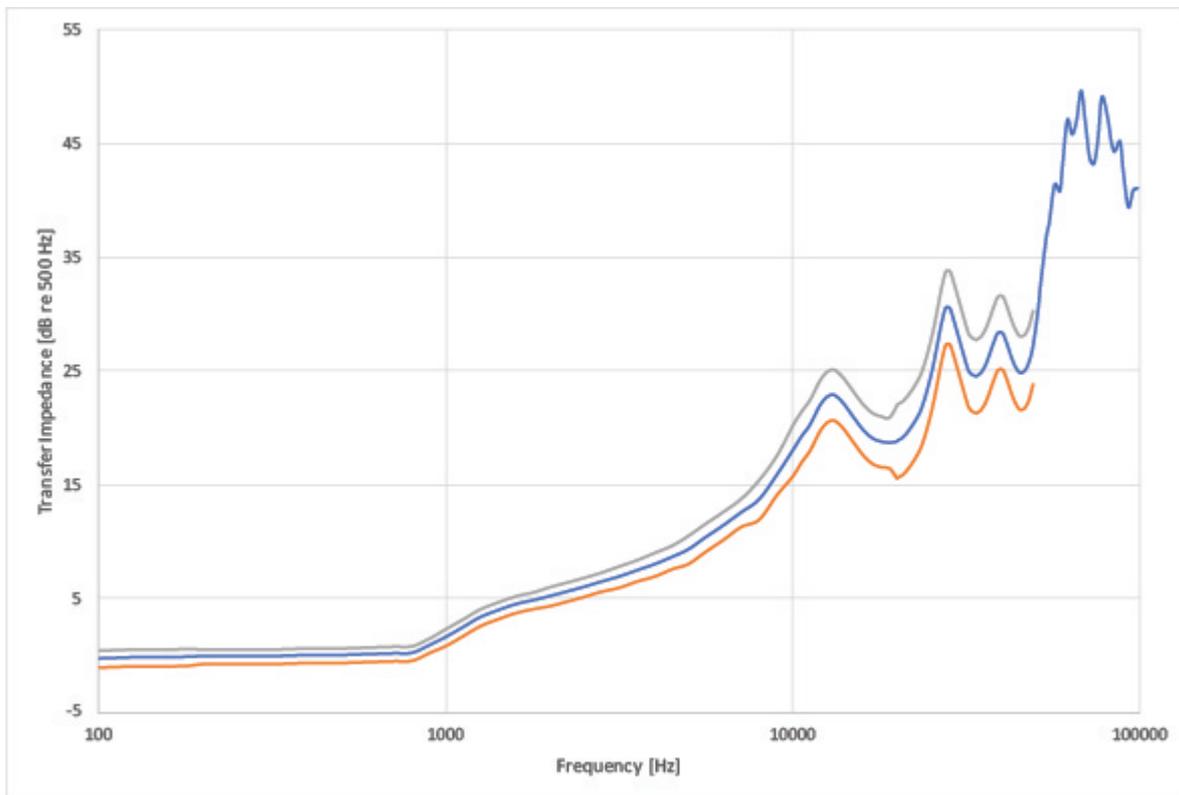
The Test Jig has an adjustable spring-loaded arm to exert a variable force on the test object.

An externally polarized version is available, [GRAS 43AC-S6](#).

## TEDS Compatibility

43AC-S7 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.

Theoretical dynamic range lower limit with GRAS preamplifier	dB(A)	44
Theoretical dynamic range upper limit with GRAS preamplifier @ +28 V / ±14 V power supply	dB	166
Set sensitivity @ 250 Hz (±3 dB)	mV/Pa	1,6
Coupler volume	mm <sup>3</sup>	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	1550 / 54.675



*Fig 1. The transfer impedance of a typical RA0404 Hi-Res Ear Simulator with tolerances. Up to 10 kHz, the response is within the limits defined by IEC 60318-4. Above 10 kHz, the response is within a fairly tight tolerance band up to 50 kHz*

## Included

<a href="#">GRAS RA0404</a>	Hi-Res Ear Simulator (prepolarized)
<a href="#">GRAS 26CB</a>	¼" Preamplifier
GRAS RA0001	Right Angled Adapter
<a href="#">GRAS RA0052</a>	Test Jig
GRAS GR0435	In-ear Adapter
GRAS GR0436	Tube stud
GRAS GR0437	Ear-mould Simulator
GRAS GR0438	Union nut
GRAS GR0440	Tube stud
GRAS GR0433	Calibration Adapter
GRAS GR0434	Stop Washer
GRAS MI0070	Cord 0.2 m

## Optional

<a href="#">GRAS 12AK</a>	Power Module
<a href="#">GRAS 42AA</a>	Pistonphone

## Miscellaneous

<a href="#">GRAS RA0196</a>	High-tension springs (set of two)
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GRAS Sound & Vibration reserves the right to change specifications and accessories without notice.

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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 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 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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