# GRAS 43AC-S6

## Hi-Res Ear Simulator Kit LEMO





Freq range: 100 Hz to 50 kHz Dyn range: 44 dB(A) to 166 dB Sensitivity: 1.6 mV/Pa

Use: For general acoustic diagnostics

The GRAS 43AC-S6 Ear Simulator Kit is a complete test-jig for hi-res measurements up to 50 kHz on earphones coupled to the ear by inserts such as tubes and earmoulds.



## Technology

The GRAS 43AC-S6 Ear Simulator Kit is a complete test jig for acoustically testing earphones coupled to the ear via inserts such as tubes and ear moulds. It 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-S6 uses the RA0403 Hi-Res Ear Simulator which extends the useful frequency range to 50 kHz. Read more about the RA0403 here.

### The 43AC comprises:

- <u>GRAS RA0403</u> Externally Polarized Hi-Res Ear Simulator
- GRAS 40BP 1/4" Pressure Microphone (included in RA0403)
- GRAS 26AC 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.

A prepolarized version is available, GRAS 43AC-S7.



## Specifications

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dB(A)	44
dB	169
mV/Pa	1.6
mm³	1260 @ 500 Hz
kHz	13.5
°C / °F	-30 to 60 / -22 to 140
dB/°C / dB/°F	-0.01 / -0.006
% RH	0 to 75
	S3.7
	60318-4 (former 60711)
	Yes/Yes/Yes
	3 m 7-pin LEMO
g / oz	1550 / 54.675
	dB  mV/Pa  mm³  kHz  °C / °F  dB/°C / dB/°F  % RH



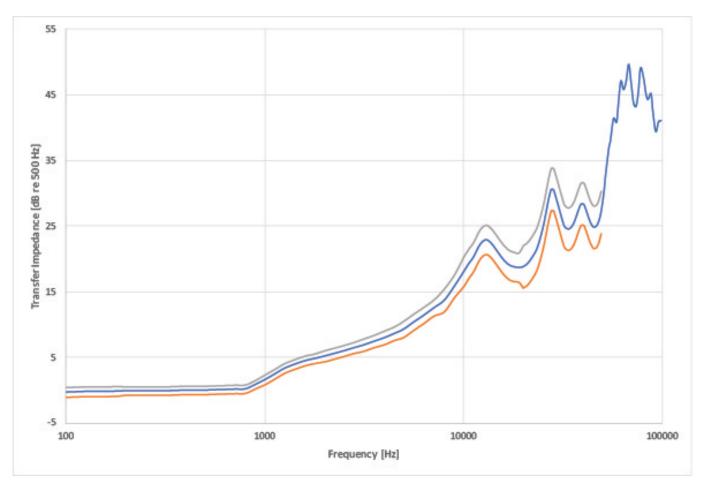


Fig 1. The transfer impedance of a typical RA0403 Hi-Res Ear Simulator with tolerances. Up to 10 kHz, the response is within the limits defined by IEC 60318-4. Above 10 kHz, the response is within a fairly tight tolerance band up to 50 kHz

### **Included**

GRAS RA0403	Hi-Res Ear Simulator, (ext. polarized)
GRAS 26AC	¼" Preamplifier
GRAS RA0001	Right Angled Adapter
<u>GRAS RA0052</u>	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**

GRAS 12AK	Power Module
GRAS 42AA	Pistonphone

### **Miscellaneous**

GRAS RA0196	High-tension springs (set of two)

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

## **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 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.

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