

GRAS 43AI

CCP Ear Simulator for Production Testing Based on ITU-T Rec. P57 Type 3.2 High-leak



Connection: 0 V/CCP
Volume: Complex
Dyn range: 25 dB(A) to 150 dB
ANSI: S3.7

The GRAS 43AI ear simulator with TEDS consists of the ITU-T Rec. P.57 Type 2 Ear Simulator and Type 3.2 Simplified High-leak Pinna Simulator and is designed for making ITU-T standardized tests of telephone handsets, receivers and receiver/loudspeaker-modules on the production line.

43AI consists of the ITU-T Rec. P57 Type 2 Ear Simulator and Type 3.2 Simplified High-leak Pinna Simulator for testing leak tolerant receivers

Besides the ear and pinna simulators, GRAS 43AI includes a detachable front-plate that can be machined to make well-defined testing on various receiver related items. A calibration adapter to be used with [GRAS 42AA Pistonphone](#)/[GRAS 42AP Pistonphone](#) is included.

TEDS Compatibility

43AI 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) | 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 | mm ³ | 1260 @ 500 Hz |
| Resonance frequency | kHz | 1.570 |
| 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 |
| ITU-T recommendations | | P.57 |
| CE/RoHS compliant/WEEE registered | | Yes/Yes/Yes |
| Connector type | | Microdot 10/32 |
| Weight | g / oz | 0.8 / 28.219 |

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

Included

| | |
|--------------------------------|---|
| GRAS RA0045-S1 | Prepolarized Ear Simulator According to IEC 60318-4 (60711) |
| GRAS 26CB | ¼" CCP Preamplifier |
| RS0010 | Generic Adapter Ring |
| RA0119 | Pistonphone Adapter |

Optional

| | |
|-----------------------------|--------------------------|
| GRAS AA0070 | 3 m Microdot - BNC cable |
|-----------------------------|--------------------------|

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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
9290 SW Nimbus Avenue
Beaverton, OR 97008
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 502, Building T1,
No.1398 Ali Center
Shenchang Road,
Minhang District,
Shanghai, China, 201107
Tel: +86 21 400-888-9826
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 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

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