

# GRAS 43AE-S1

CCP Ear Simulator Kit According to ITU-T Rec. P57 Type 3.2



Connection: 0 V/CCP

Volume: Complex

Dyn range: 25 dB(A) to 150 dB

ANSI: S3.7

The GRAS 43AE-S1 Ear Simulator according to ITU-T Rec. P57 Type 3.2, Prepolarized is for acoustically testing supra-aural earphones, telephone handsets and loudspeakers, and complies with the international requirements: ITU-T Recommendation P.57 (08/96) "Serie P: Telephone Transmission quality. Objective measuring apparatus: Artificial ears".

The 43AE-S1 is an IEC 60318-4 (60711) Ear Simulator for acoustical testing of supra-aural earphones, telephone handsets and loudspeakers in accordance with

- IEC60318-4 Occluded-ear simulator for the measurement of earphones coupled to the ear by ear inserts
- ITU-T Recommendations P57 (08/96) Series P: Telephone transmission quality, Objective measuring apparatus: Artificial ears

The 43AE-S1 comprises:

- [GRAS RA0045-S1 Ear Simulator](#)
- [GRAS 26CB ¼" Preamplifier](#)
- [GRAS GR0010 ¼" - ½" Adapter](#)
- [GRAS RA0056 Low-leak Pinna Simulator](#)
- [GRAS RA0057 High-leak Pinna Simulator](#)

|  |                 |                         |
|--|-----------------|-------------------------|
| 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 ( $\pm 2$ dB)                           | mV/Pa           | 12                      |
| Set sensitivity @ 250 Hz ( $\pm 2$ dB)                           | dB re 1V/Pa     | -38.5                   |
| Coupler volume   | mm <sup>3</sup> | 1260 @ 500 Hz           |
| Resonance frequency  | kHz             | Low 713.8, High 1570    |
| 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 Type 1             |
| CE/RoHS compliant/WEEE registered                                |                 | Yes/Yes/Yes             |
| Connector type   |                 | 3 m 7-pin LEMO          |
| Weight   | g / oz          | 1.05 / 37.038           |

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

## Miscellaneous

[GRAS RA0119](#)

Pistonphone adapter

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# GRAS Worldwide

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than 40 countries

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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](http://www.grasacoustics.com)

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