GRAS 44AB

Mouth Simulator according to ITU-T Rec. P51



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ITU-T rec.: P.51 IEEE standards: 269, 661 GRAS 44AB Mouth Simulator is a sound source that simulates the sound field around the human mouth at close quarters and complies with the Standards IEEE 269, 661 and ITU-T Rec. P51.

GRAS 44AB is for testing telephone mouthpieces as well as other microphones similarly used in communication networks.

GRAS Sound & Vibration Skovlytoften 33, 2840 Holte, Denmark www.grasacoustics.com



GRAS 44AB and 44AB-1

At the mouth reference point (MRP), which is 25 mm from the detachable lip ring (35 mm from the mouth of the Type 44AB/AB-1), the maximum continuous signal it can produce in ½-octave bands is 100 dB re. 20 µPa in the frequency range of 100 Hz to 16 kHz. Its loudspeaker accepts an external signal directly via a BNC input.

Jigs are included for calibration according to CCITT P.51 and IEEE 269. These are for use with $\frac{1}{4}$ or $\frac{1}{2}$ microphones. One jig holds the microphone at 0° incidence ($\frac{1}{4}$ only) to the sound source, the other at 90° incidence ($\frac{1}{4}$ or $\frac{1}{2}$).

44AB-1 and is a special version of 44AB with the BNC connector positioned on the opposite side for proper mounting on the GRAS 45CC Test Fixture.

NOTE: This type of mouth simulator can not be mounted inside a KEMAR head.



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ITU-T recommondations		P.51
Connector type		BNC
IEEE standard		269, 661
Maximum power, continuous	W	10
Maximum power, pulsed 2 sec.	W	50
Temperature range, operation	°C / °F	10 to 35 / 50 to 95
CE/RoHS compliant/WEEE registered		Yes/Yes/Yes
Weight	g / oz	1000 / 35.274

Maximum continuous output level at MRP [200 Hz - 6 kHz] 110 dB re. 20 Pa

Maximum continuous output level at MRP [100 Hz - 16 kHz] 100 dB re. 20 Pa

Distortion 250 Hz - 8 kHz (Linear signal @ 94 dB at MRP) typically 1 %, max. 1.5 %



Frequency response





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



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Dimensions

GRAS 44AB Mouth Simulator according to ITU-T Rec. P51







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44AB-1

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Dimensions

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Date 18-07-2025.

Ordering info

Included	
GRAS RA0104	Jig (CCITT P51)
GRAS RA0105	Jig (IEEE 269)
Optional	
GRAS RA0110	Conical mouthpiece

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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 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



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