

## GRAS 44AA & 44AB

### Mouth Simulators



A sound source, which simulates the acoustic field close to the human mouth and complies with the standards IEEE 269, 661 and ITU-T Rec. P51.

For testing telephone mouthpieces as well as other microphones. At the mouth reference point (MRP), which is 25 mm from the detachable lip ring, the minimum-continuous signal it can produce in 1/3-octave bands is 100 dB re. 20  $\mu$ Pa in the frequency range 100 Hz to 10 kHz.

44AA's loudspeaker accepts an external signal either directly or via its own built-in power amplifier.

44AB's loudspeaker accepts a signal from an external power amplifier directly via the BNC input.

The jigs RA0104 and RA0105 are included for calibration according to ITU-T Rec. P51 and IEEE 269. These are for use with 1/4" or 1/2" microphones on 1/4" preamplifiers.

RA0104 holds the microphone at 0° incidence (1/4" only) to the sound source, RA0105 at 90° incidence (1/4" or 1/2").

Specifications	44AA	44AB
Min. continuous output level at MRP	110 dB re. 20 $\mu$ Pa (200 Hz – 6 kHz) 100 dB re. 20 $\mu$ Pa (100 Hz – 16 kHz)	110 dB re. 20 $\mu$ Pa (200 Hz – 6 kHz) 100 dB re. 20 $\mu$ Pa (100 Hz – 16 kHz)
Loudspeaker	8 $\Omega$ / 10 W (max. continuous)	8 $\Omega$ / 10 W (max. continuous)
Amplifier	Gain: 10 dB / Input impedance: 20 k $\Omega$	- / -
Mouth opening	20 mm diameter	20 mm diameter
Lip ring: External diameter / Distance from mouth	48 mm / 10 mm	48 mm / 10 mm
Dimensions: Diameter / Height (with lip ring)	104 mm / 104 mm	104 mm / 104 mm

