

PREPOLARIZED MEASUREMENT MICROPHONES

FREE FIELD AND RANDOM INCIDENCE

GRAS 40AE

½" Free-field Microphone



General-purpose high-sensitivity microphone with a frequency range from 3.15 Hz to 20 kHz. Requires no external polarization voltage. Ideal with CCP preamplifiers, Type 1 sound level meters and other similar measurement setups.

GRAS 40AZ

½" Free-field Microphone, Low Frequency



Low-frequency microphone especially designed for infra-sound measurements. Frequency range from 0.5 Hz to 20 kHz. Use the dedicated 26CG ¼" CCP preamplifier in order to obtain the low frequency response.

GRAS 40AM

½" Free-field Microphone, Wide Frequency



High-precision microphone for laboratory work. Wide frequency range from 3.15 Hz to 31.5 kHz. Its size and low sensitivity make it extremely robust and stable and it can measure sound levels up to 163 dB.

GRAS 40BE

¼" Free-field Microphone



Low-sensitivity microphone for high level and high frequency measurements. Requires no polarization voltage. Its low sensitivity makes it ideal for measuring high sound-pressure levels up to 168 dB. Ideal with CCP preamplifiers and for sound measurements at very high frequencies and levels.

A front-vented version is available, 40BE-FV.

GRAS 40AQ

½" Random-incidence Microphone



High-sensitivity microphone with a frequency response optimized to measure sound correctly in random, diffuse and reverberant sound fields. Requires no external polarization voltage. It fulfills the requirements of ANSI standard S1.4.

	Size	Application	Sensitivity	Dynamic Range	Frequency Range	Polarization Voltage	IEC 61094 Designation
40AE	12.7 (½")	Free field	50	15 – 148	3.15 – 20 k	0	WS2F
40AM	12.7 (½")	Free field	14.5	20 – 163	3.15 – 31.5 k	0	WS2F
40AQ	12.7 (½")	Random	50	16 – 148	3.15 – 12.5 k	0	WS2P/D
40AZ	12.7 (½")	Free field	50	14 – 148	0.5 – 20 k	0	WS2F
40BE	6.35 (¼")	Free field	4	30 – 168	4 – 80 k	0	WS3F
Units	mm (housing)		mV/Pa	dB re. 20 µPa	Hz	V	

