

GRAS 40AM

1/2" 预极化宽频自由场传声器



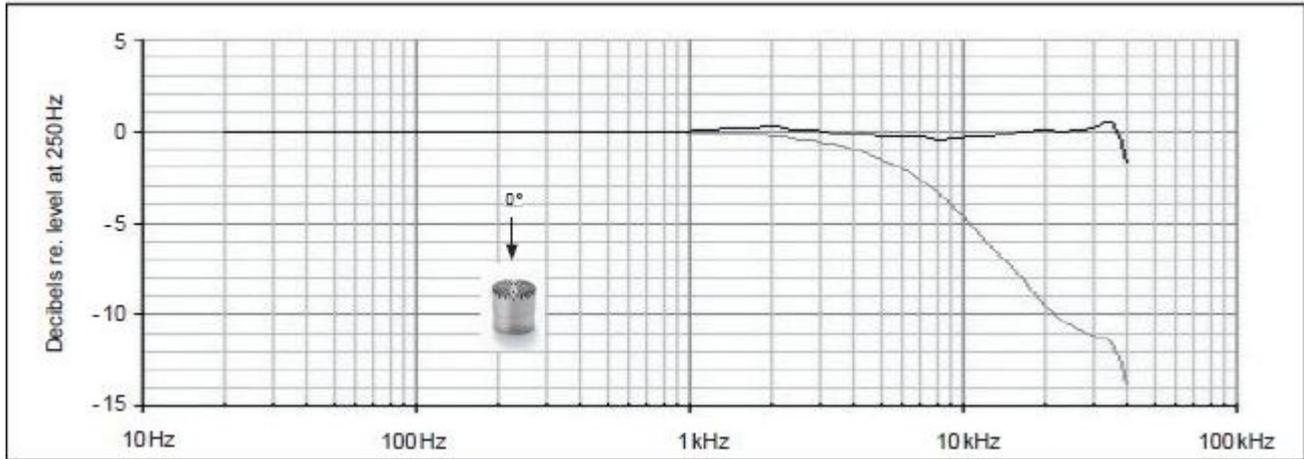
频率范围 3.15 Hz - 31.5 kHz
动态范围 20 dB(A) - 163 dB
灵敏度 14.5 mV/Pa

40AM 是一款符合 IEC 61094 WS2F 标准、带后置通气孔的 1/2" 预极化宽频自由场传声器。其外极化等效型号是 GRAS 40AC

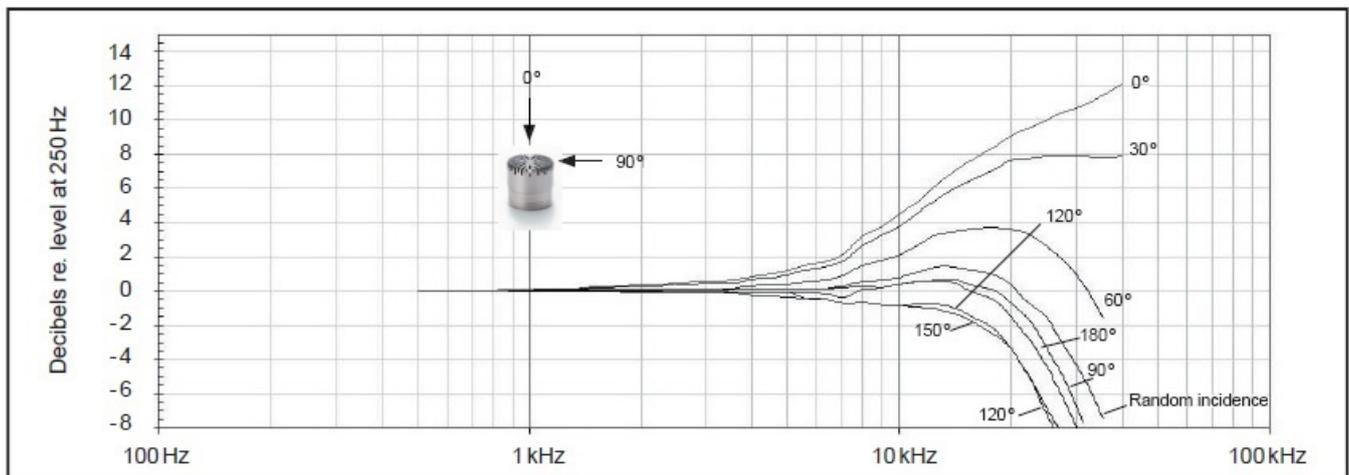
简介

GRAS 40AM 是一款根据 IEC 61094-4 标准要求制造的高精度驻极体电容传声器。传声器的驻极体技术于 20 世纪 60 年代初问世，并在此后数年间不断改进。在 GRAS 我们开发并完善了我们自己的技术。这保证了我们的预极化传声器在日常使用场景中，与我们传统的外部极化版本一样稳定和坚固。

Polarization/Connection		0 V / CCP
Frequency range (± 1 dB)	Hz	5 to 16 k
Frequency range (± 2 dB)	Hz	3.15 to 31.5 k
Frequency range (± 3 dB)	Hz	3.15 to 40 k
Dynamic range lower limit (microphone thermal noise)	dB(A)	20
Dynamic range lower limit with GRAS preamplifier	dB(A)	25
Dynamic range upper limit	dB	163
Dynamic range upper limit with GRAS preamplifier @ +28 V / ± 14 V power supply	dB	152
Dynamic range upper limit with GRAS preamplifier @ +120 V / ± 60 V power supply	dB	163
Dynamic range upper limit with GRAS CCP preamplifier	dB	149
Open-circuit sensitivity @ 250 Hz (± 2 dB)	mV/Pa	14.5
Open-circuit sensitivity @ 250 Hz (± 2 dB)	dB re 1V/Pa	-37
Resonance frequency	kHz	32
Microphone cartridge capacitance, typ.	pF	17
Microphone venting		Rear
Temperature range, operation	$^{\circ}\text{C}$ / $^{\circ}\text{F}$	-40 to 120 / -40 to 248
IEC 61094-4 Designation		WS2F
Temperature range, storage	$^{\circ}\text{C}$ / $^{\circ}\text{F}$	-40 to 85 / -40 to 185
Temperature coefficient @250 Hz	dB/ $^{\circ}\text{C}$ / dB/ $^{\circ}\text{F}$	-0.01 / -0.006
Humidity range non condensing	% RH	0 to 90
Static pressure coefficient @250 Hz	dB/kPa	-0.014
Humidity coefficient @250 Hz	dB/% RH	-0.001
Influence of axial vibration @1 m/s ²	dB re 20 μPa	66
CE/RoHS compliant/WEEE registered		Yes / Yes, Yes
Weight	g / oz	6.5 / 0.229



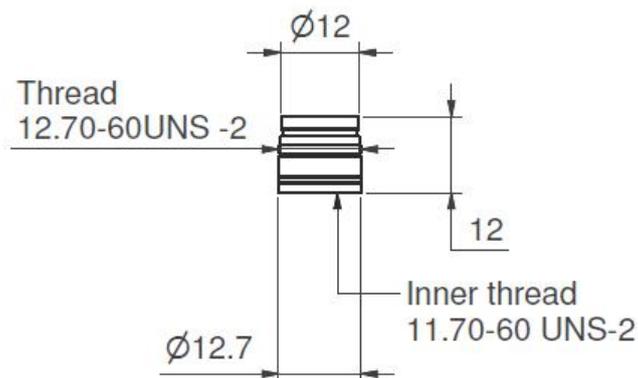
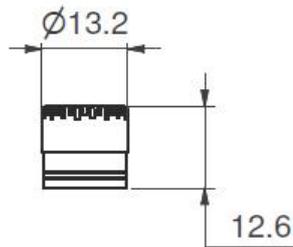
典型频率响应。上方的曲线为0° 自由场响应，下方的曲线为压力场响应。



不同入射角度下的自由场修正值

GRAS Sound & Vibration 保留更改规格的权利，恕不另行通知。

Dimensions in mm



GRAS CA0001	传声器的可溯源校准
GRAS CA2001	传声器的认可校准

GRAS Sound & Vibration 保留更改配件的权利，恕不另行通知。

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 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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