

GRAS 42AG

多功能声音校准器，1级



Sound pressure level: 94 dB or 114 dB
Frequency: 250 Hz or 1 kHz
ANSI: S1.40
IEC: 60942 class 1

GRAS 42AG多功能声音校准器是一种便携式、电池供电的精密传声器校准器。校准器可以直接用于1英寸传声器。包括用于校准1/2英寸（工厂安装）、1/4英寸和1/8英寸传声器的适配器。

GRAS 42AG 多功能声音校准器是一种便携式电池驱动声源，用于校准和检查传声器和声级计。它专为现场使用而设计，配有保护外壳。它符合 IEC 60942 对 1 级声音校准器的要求。

它可以产生频率为 250 Hz 或 1 kHz 分贝为 94 dB 或 114 dB 的正弦信号。为便于记录 42AG 可显示环境条件：环境气压、温度。

声音由集成在声学耦合器中的小型扬声器发出。内部参考传声器测量耦合器中的电平，反馈电路自动调整电平。因此，在指定的工作范围内，校准电平几乎不受温度、气压和湿度等环境条件的影响。

校准器专为 1" 及更小的传声器和配备此类传声器的声级计而设计。1" 传声器可直接插入校准器耦合器，而 1/2"、1/4" 和 1/8" 传声器则需要使用随附的适配器。

校准器由两节 LR03 型碱性电池 (AAA 尺寸) 供电。如果电池提供的电压过低，无法确保正常工作，校准器将自动关闭或不启动。

优势

42AG 设计用于满足现场使用对便携式多功能校准器的需求。此外，它还是现有校准器的合理替代或升级产品。

42AG 的功能更强，使用更方便。它集便携性、自动电平调节、两种校准频率和电平于一身，是一个完整的、自给自足的解决方案，可用于执行完整的现场验证，而无需其他仪器，例如用于记录环境校准条件。

它有 250 Hz 和 1 kHz 两个校准频率，非常适合校准通常在 250 Hz 校准的传声器以及通常在 1 kHz 校准的声级计。

42AG 可以在 94 dB 和 114 dB 两种不同的电平下进行校准 114 dB 是适合中等灵敏度传声器的电平，而 94 dB 的低电平则可以校准高灵敏度的传声器，而不会使传声器过载。

保修

42AG 的保修期为 5 年，包括材料和工艺缺陷

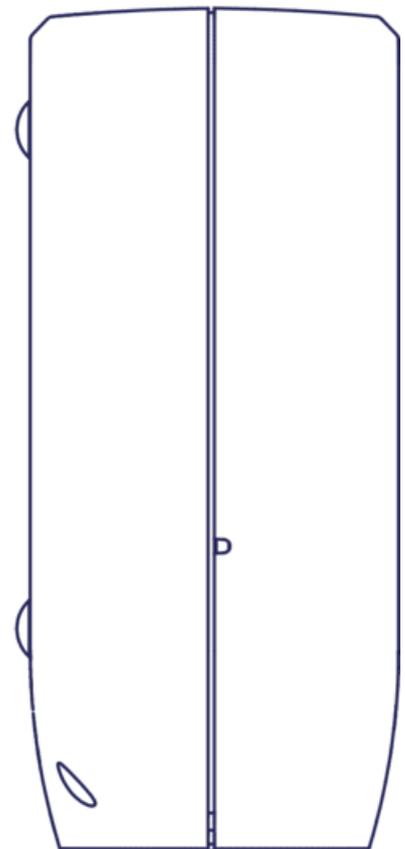
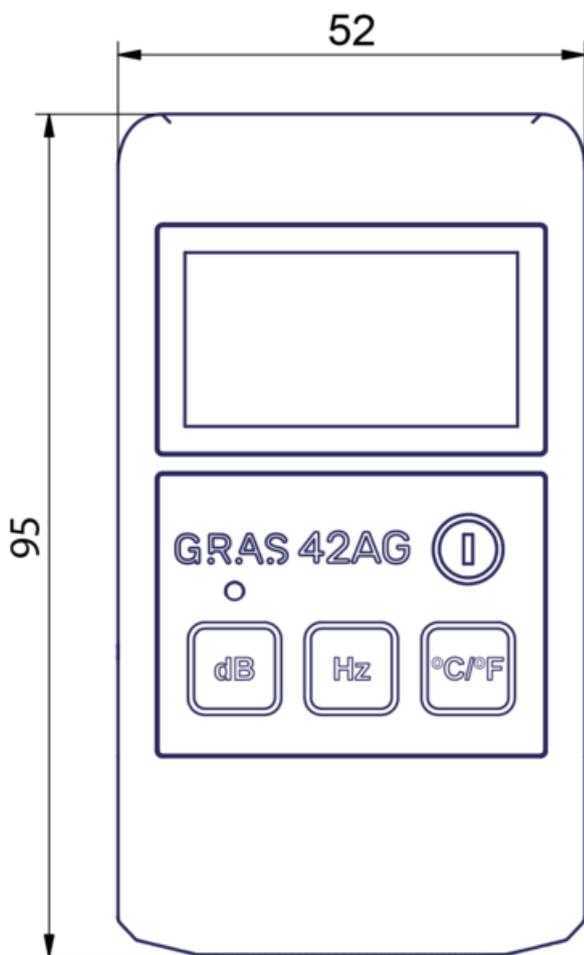
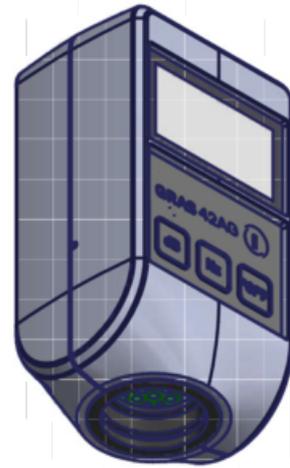
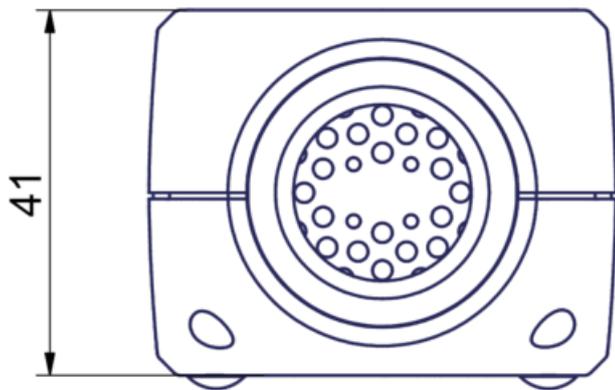
Frequency	Hz	250 (251.19 ± 0.30 Hz) or 1 kHz (1000 ± 1 Hz)
Sound pressure level	dB	94 (± 0.2 dB) or 114 (± 0.2 dB)
ANSI standard		S1.40 (2006)
IEC standard		60942 (2017)
Microphone size		1", 1/2", 1/4" and 1/8"
Distortion		Max 2%
Stabilizing time		20 seconds
Sensitivity to environmental conditions		As specified for IEC 60942 class 1 / ANSI S1.40
Temperature range, operation	°C / °F	-10 to +50/14 to 122
Relative humidity, operation		25% to 90%
Air pressure, operation		65 kPa to 108 kPa
Display type and resolution		Mono-colour OLED graphical display – 128×64 (WxH)
Temperature range		-10°C to +50°C or 14°F to 122°F
Resolution / Accuracy		0.1°C / ±2°C or 0.1°F / ±2°F
Atmospheric pressure		65 kPa to 108 kPa; Resolution 0.1kPa; Accuracy ±0.4 kPa, (for temperature above 0°C)
Relative humidity		0% to 100%; Resolution 1%; Accuracy ±4%, (for temperature above 0°C and humidity in the range 25% to 85%)
Battery type		LR03 (AAA)
Battery life	h	> 10 hours
Battery low		Automatically switching off if battery voltage too low
CE/RoHS compliant/WEEE registered		yes/yes/yes
Weight	g / oz	125

Sound pressure level	dB	94 (± 0.2 dB) or 114 (± 0.2 dB)
Size (LxWxH)		97x51.5x41 mm / 3.8x2.0x1.6 "

Level and frequencies at reference conditions (23,0°C/101,325 kPa/50% Relative Humidity) - levels in decibel relative to 20 μ Pa.

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

Dimensions



Included items

GRAS RA0297	Adapter for ½" microphones.
GRAS RA0049	Adapter for ¼" microphones
GRAS RA0069	Adapter for 1/8" microphones
GRAS EL0001	Four LR6-AA alkaline cells

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GRAS Worldwide

Subsidiaries and distributors in more 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 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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