

GRAS 26AM

1/2" Standard Preamplifier with 3 m integrated cable



Freq range: 2.5 Hz - 200 kHz

Noise: 1.8 μ V

Gain: -0.25 dB

Special feature: General purpose

The GRAS 26AM 1/2-inch Preamplifier is a small robust unit optimised for acoustic measurements using condenser microphones. It has a very low inherent noise level, a wide dynamic range and a frequency response from below 2 Hz to above 200 kHz.

Typical application & use

Precision measurements

Low-pressure measurements

General-purpose preamplifiers

7-pin LEMO 1B male (ext. view)

Design

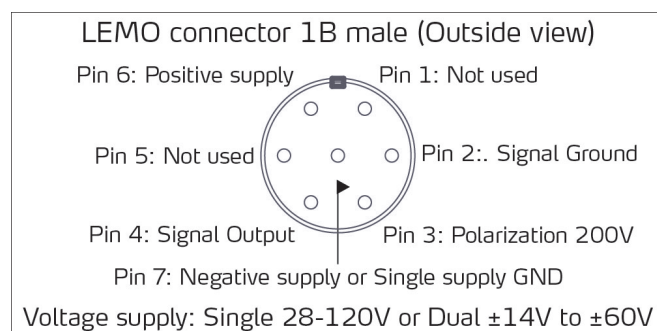
All GRAS microphone preamplifiers are based on a small ceramic thick-film substrate with a very high input impedance. The ceramic substrate is shielded by a guard ring to minimise the influence of stray capacitance and microphonic interference. The casing is made of stainless steel for maximum strength and durability. The small dimensions of the 26AM preamplifier ensures reliable operation under humid conditions owing to the heat generated by internal power dissipation.

Compatibility

The 26AM preamplifier is compatible with ½-inch microphones as defined in international standard IEC1094 Measurement Microphones, Part 4: Specifications for working standard microphones. The mounting thread (11.7 mm – 60 UNS-2) is compatible with other available makes of similar microphone preamplifiers.

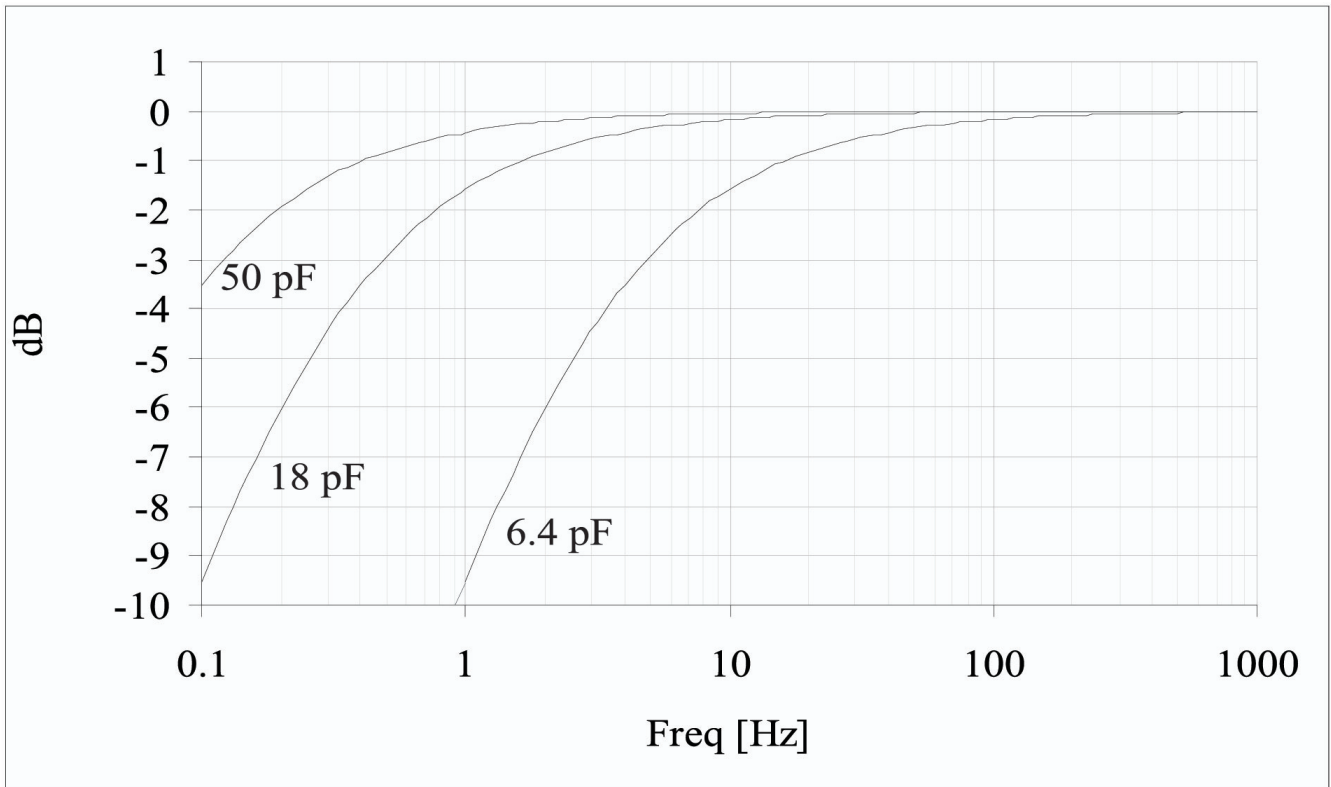
26AM is provided with a 3 m high-quality cable terminating with a 7-pin LEMO series 1B plug.

Connector

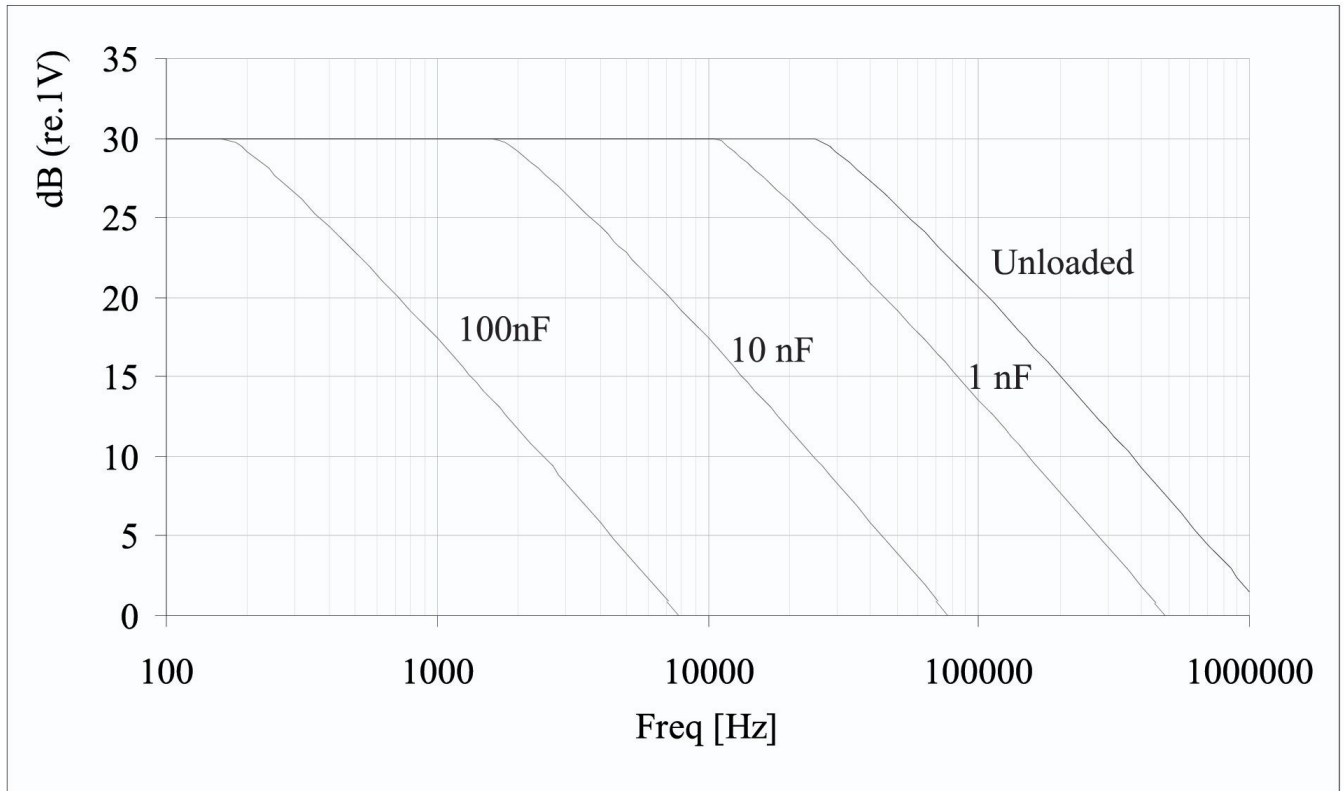


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|---|-----------------------------|-------------------------|
| Frequency range (± 0.2 dB) with 18 pF microphone dummy | Hz | 2.5 to 200 k |
| Slew rate | V/ μ s | 20 |
| Input impedance | G // pF | 20 // 0.4 |
| Output impedance | | 75 |
| Output Voltage Swing, max. @ ± 14 V/+28V power supply | Vp | 10 |
| Output Voltage Swing, max. @ ± 60 V/+120V power supply | Vp | 50 |
| Noise (A-Weighted) max. | μ V | 2.5 |
| Noise (A-Weighted) typ. | μ V | 1.8 |
| Noise (Linear 20 Hz – 20 kHz) max. | μ V | 6 |
| Noise (Linear 20 Hz – 20 kHz) typ. | μ V | 3.5 |
| High-pass filter @3dB cut-off | Hz | TBD |
| Gain | dB | -0.25 |
| Power supply, single | V | 28 to 120 |
| Power supply, balanced | V | ± 14 to ± 60 |
| DC-offset, min., single supply | V | $0.5 \times V_s - 1$ |
| DC-offset, max., single supply | V | $0.5 \times V_s + 4$ |
| DC-offset, balanced supply | V | -1 to 4 |
| Temperature range, operation | $^{\circ}$ C / $^{\circ}$ F | -30 to 70 / -22 to 158 |
| Temperature range, storage | $^{\circ}$ C / $^{\circ}$ F | -40 to 85 / -40 to 185 |
| Humidity range non condensing | % RH | 0 to 95 |
| Humidity coefficient @250 Hz | dB/% RH | TBD |
| Connector type | | 7-pin LEMO (FGG.1B.307) |
| CE/RoHS compliant/WEEE registered | | Yes/Yes, Yes |
| Weight | g / oz | 32.0 / 1.13 |

Conditions: 23 $^{\circ}$ C Ambient temperature, ± 60 V/+120V power supply, 18 pF dummy microphone, 3 m output cable.



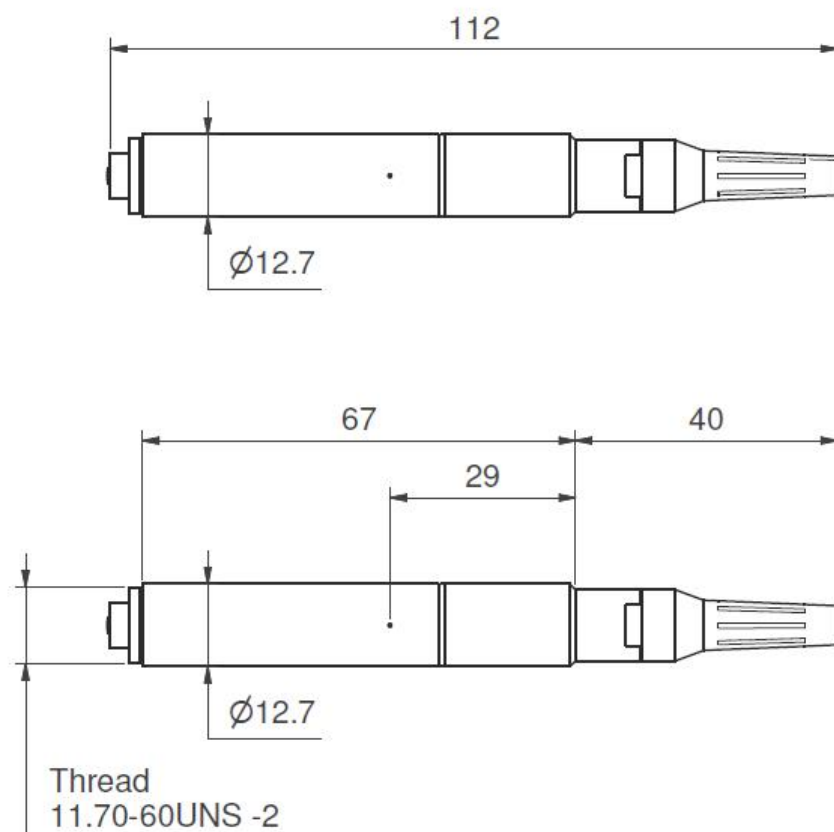
Low frequency response for various microphone capacities



Max. RMS output signal for various cable loads with 120 V supply

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

Dimensions in mm



Optional items

| | |
|-----------------------------|--|
| GRAS AL0008 | 1/2" Microphone Holder, POM |
| GRAS AL0012 | 1/2" Microphone Holder, Stainless Steel |
| GRAS AL0005 | Swivel head |
| GRAS AL0006 | Tripod |
| GRAS RA0019 | Adapter for 1/4" microphone and 1/2" preamplifier |
| GRAS RA0073 | Adapter for 1" microphone and 1/2" preamplifier |
| GRAS RA0190 | Right-angled (90°) Adapter for 1/2" Microphone and 1/2" Preamplifier |
| GRAS RA0016 | 20 dB Attenuator for externally polarized 1/2" microphones |
| GRAS RA0062 | 20 pF Preamplifier-input Adapter for 1/2" preamplifiers |
| GRAS 12AA | 2-Channel Power Module with gain, filters and SysCheck generator |
| GRAS 12AQ | 2-Channel Universal Power Module with signal conditioning and PC interface |

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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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