

# GRAS 12AA



Connection: Traditional 200 V  
Channel(s): 2

GRAS 12AA

GRAS Sound & Vibration  
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[www.grasacoustics.com](http://www.grasacoustics.com)



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GRAS 12AA      12 V-18 V /  
                    0 V            200 V            120 V  
                    28 V            GRAS 12AA    10

2 7 LEMO (A B) GRAS  
26AB 26AC 26AJ 26AK

BNC    A    B                            -20 dB  
+40 dB    20 dB

A    IEC 60651 0                            20 Hz -1 dB

"    "                            12AA

12AA    19    1/12    AK0040            19    12

□□

GRAS                            12AA    2

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GRAS

|   |                  |                                   |
|---|------------------|-----------------------------------|
| CONDITIONING  |                  | .                                 |
| Frequency range ( $\pm 1$ dB)   | Hz               | 3.5 to 200 k                      |
| Frequency range ( $\pm 3$ dB)   | Hz               | 2 to 250 k                        |
| Output channel(s)   |                  | 2                                 |
| Output impedance  | $\Omega$         | 30                                |
| Direct coupling input to output                                       |                  | Yes                               |
| Inherent noise, LIN (20 Hz to 20 kHz), grounded input                 | $\mu\text{Vrms}$ | <1.6                              |
| Inherent noise, A-weighted, (20 Hz to 20 kHz), grounded input         | $\mu\text{Vrms}$ | <1                                |
| Inherent noise, A-weighted with dummy preamplifier (20 Hz to 20 kHz), | $\mu\text{Vrms}$ | <3.2                              |
| Inherent noise, LIN with dummy microphone (20 Hz to 20 kHz)           | $\mu\text{Vrms}$ | <5.7                              |
| Gain settings, 20 dB steps  | dB               | -20 to +40                        |
| Gain error  | dB               | < 0.2                             |
| A-weighting filter according to                                       |                  | IEC 60651 Type 0                  |
| High-pass filter  |                  | 3-pole Butterworth, -1 dB @ 20 Hz |
| Linear mode   |                  | Yes                               |
| SysCheck level @ 1 kHz  | Vrms             | 1                                 |
| Type  |                  | Traditional power supply (LEMO)   |
| Input channel(s), traditional power supply                            |                  | 2                                 |
| Channel separation (20 Hz to 20 kHz)                                  | dB               | >65                               |
| Preamplifier supply   | V                | 28 / 120                          |
| Polarization voltage  | V                | 0 / 200                           |
| Overload indication   |                  | Yes                               |
| PC controlable  |                  | No                                |
| External filter option  |                  | No                                |
| Power amplifier overload detection                                    |                  | No                                |
| POWER SUPPLY  |                  | .                                 |

|                                    |         |                        |
|------------------------------------|---------|------------------------|
| Power supply, battery              |         | 10 x LR6 (AA)          |
| Power supply, external             | Vdc     | 12 to 18               |
| Power consumption                  | mA      | 160 to 190             |
| Battery life, 28 V preamp. supply  | h       | 10                     |
| Battery life, 120 V preamp. supply | h       | 8                      |
| Battery low indication             |         | Yes                    |
| Fuse                               | mA      | 315                    |
| Temperature range, operation       | °C / °F | -10 to +50 / 14 to 122 |
| Weight                             | g / oz  | 810 / 28,572           |

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|                             |   |
|-----------------------------|---|
| GRAS EL0001                 | 10 x LR6 (AA) alkaline cells                  |
|                             | (     )                                       |
| <a href="#">GRAS AB0002</a> | Power supply 230 VAC to 15 VDC. EU-connector  |
| GRAS AB0006                 | Power supply 230 VAC to 15 VDC. UK-connector  |
| <a href="#">GRAS AB0003</a> | Power supply 120 VAC to 15 VDC. USA-connector |



|                             |                              |
|-----------------------------|------------------------------|
| <a href="#">GRAS AK0040</a> | 19-inch Rack-mounting System |
| <a href="#">12AA-S20</a>    | 12AA                         |

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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 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](http://www.grasacoustics.com)

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