

# GRAS 12AK

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Connection: Traditional 200 V  
Channel(s): 1

GRAS 12AK 7 LEMO 1B  
A Lin HP 12AK

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12AK 12 V-18 V /

V 0 V 200 V 120  
28 V

12AK 11 LED

7 LEMO GRAS 26AB 26AC 26AJ  
26AK

BNC

0 dB + 50 dB 10 dB

A IEC 60651 0 20 Hz -1 dB

" " 12AK

12AK 19 1/12 AK0040 19 12

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GRAS 12AK 2

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GRAS

|   |            |                                   |
|---|------------|-----------------------------------|
| Frequency response ( $\pm 1.0$ dB) @ Gain $\leq 40$ dB                | Hz         | 2 to 200 k                        |
| Frequency response ( $\pm 1.0$ dB) @ Gain 50 dB                       | Hz         | 2 to 100 k                        |
| Output channel(s)   |            | 1                                 |
| Output impedance  | $\Omega$   | 30                                |
| Direct coupling input to output                                       |            | Yes                               |
| Inherent noise, LIN (20 Hz to 20 kHz), grounded input                 | $\mu$ Vrms | <4                                |
| Inherent noise, A-weighted, (20 Hz to 20 kHz), grounded input         | $\mu$ Vrms | <2.8                              |
| Inherent noise, A-weighted with dummy preamplifier (20 Hz to 20 kHz), | $\mu$ Vrms | <4                                |
| Inherent noise, LIN with dummy microphone (20 Hz to 20 kHz)           | $\mu$ Vrms | <5.6                              |
| Gain settings, 10 dB steps  | dB         | 0 to +50                          |
| 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                            |            | 1                                 |
| 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, battery   |            | 10 x LR6 (AA)                     |
| Power supply, external  | Vdc        | 12 to 18                          |
| Power consumption   | mA         | 180 to 210                        |

|                                    |         |                        |
|------------------------------------|---------|------------------------|
| Battery life, 28 V preamp. supply  | h       | 11                     |
| Battery life, 120 V preamp. supply | h       | 9                      |
| Battery low indication             |         | Yes                    |
| Fuse                               | mA      | 250 (slow)             |
| Temperature range, operation       | °C / °F | -10 to +50 / 14 to 122 |
| Weight                             | g / oz  | 770 / 27.16            |

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|             |   |
|-------------|---|
| GRAS EL0001 | 10 x LR6 (AA) alkaline cells                  |
| :           | (      )                                      |
| GRAS AB0002 | Power supply 230 VAC to 15 VDC. EU-connector  |
| GRAS AB0006 | Power supply 230 VAC to 15 VDC. UK-connector  |
| GRAS AB0003 | Power supply 120 VAC to 15 VDC. USA-connector |

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|--------------------------|------|
| GRAS AK0040              | 19"  |
| <a href="#">12AK-S20</a> | 12AK |

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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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