

# GRAS 12AK

1



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	$\mu\text{Vrms}$	$< 4$
Inherent noise, A-weighted, (20 Hz to 20 kHz), grounded input	$\mu\text{Vrms}$	$< 2.8$
Inherent noise, A-weighted with dummy preamplifier (20 Hz to 20 kHz),	$\mu\text{Vrms}$	$< 4$
Inherent noise, LIN with dummy microphone (20 Hz to 20 kHz)	$\mu\text{Vrms}$	$< 5.6$
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



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

GRAS Sound & Vibration



# GRAS Worldwide

Subsidiaries and distributors in more  
than 40 countries

**HEAD OFFICE, DENMARK**  
**GRAS SOUND & VIBRATION**  
Skovlytoften 33  
2840 Holte  
Denmark  
Tel: +45 4566 4046  
[www.GRASacoustics.com](http://www.GRASacoustics.com)  
[gras@grasacoustics.com](mailto:gras@grasacoustics.com)

**USA**  
**GRAS SOUND & VIBRATION**  
9290 SW Nimbus Avenue  
Beaverton, OR 97008  
Tel: 503-627-0832  
Toll Free: 800-231-7350  
[www.GRASacoustics.com](http://www.GRASacoustics.com)  
[sales-usa@grasacoustics.com](mailto:sales-usa@grasacoustics.com)

**UK**  
**GRAS SOUND & VIBRATION**  
Unit 115, Gibson House,  
Ermine Business Park, Huntingdon,  
Cambridgeshire, PE29 6XU  
Tel: +44 (0) 7762 584 202  
[www.GRASacoustics.com](http://www.GRASacoustics.com)  
[sales-uk@grasacoustics.com](mailto:sales-uk@grasacoustics.com)

**CHINA**  
**GRAS SOUND & VIBRATION**  
Room 315, RuiBo Center(T1)  
Lane683, Shenhong Rd,  
Minhang District,  
Shanghai, China, 201107  
Tel: +86 21 64203370  
[www.GRASacoustics.cn](http://www.GRASacoustics.cn)  
[cnsales@grasacoustics.com](mailto:cnsales@grasacoustics.com)



## 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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