

# GRAS 12AG

8



Connection: Traditional 200 V  
Channel(s): 8

GRAS 12AG 8

GRAS Sound & Vibration  
Skovlytoften 33, 2840 Holte, Denmark  
[www.grasacoustics.com](http://www.grasacoustics.com)





- 
- 
- 
- 



- 
- A
- 

12AG 110-240 VAC /

12AG 12-18 VDC

Housed in a durable, anodized aluminum cabinet, the 12AG is built to withstand demanding environments.

The supply and polarization voltages are set by two pairs of switches, one common to channels 1 - 4 and one common to channels 5 - 8. The polarization voltage in each group can be set to 0 V – for prepolarized microphones, or 200 V – for externally polarized microphones

And the voltage supply for the preamplifiers can be set to 120 V – for maximum dynamic range, or 28 V – for minimum power consumption; may be important when using an external DC power supply.

The input to each channel is a 7-pin LEMO socket on the front panel which is wired up for GRAS microphone preamplifiers, e.g. 26AB, 26AC, 26AJ and 26AK, but is also compatible with other available makes of microphone preamplifiers.

The output of each channel is via a standard BNC connector also on the front panel as well as via one of the 4-channel VXI outputs on the rear panel.

Each channel has two overload indicators; one instantaneous, and one latched which can be reset by a common push button. The gain in each channel can be set from 0 dB to + 50 dB in steps of 10 dB.

The standard A-weighting filter in each channel complies with IEC Standard 60651: Sound levelmeters Type 0. The high-pass filter in each channel is a 3-pole Butterworth filter with a – 1 dB cut-off at a frequency of 20 Hz. This filter is for reducing unwanted low-frequency signals, e.g. caused by wind-induced noise on the microphone.

The preamplifier signal in each channel can be coupled directly to the output of the 12AG by selecting direct output. This makes the output of the preamplifier available free of any signal conditioning.

The cabinet of the 12AG is 1/2" of a standard 19-inch rack; meaning that 2 of these Power Modules can be mounted in a standard 19-inch rack using the AK0040 Rack-mounting System.



GRAS

12AG 2



GRAS

CONDITIONING		.
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
Frequency response ( $\pm 0.2$ dB)	Hz	20 to 20 k
Output channel(s)		8
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		8
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
POWER AMPLIFIER		.
External filter option		No

Power amplifier overload detection		No
Power supply, external ( $\pm 10\%$ )	Vac	110 to 240
Power supply, external	Vdc	12 to 18
Power consumption	mA	100
Battery low indication		No
Fuse	mA	1250 (slow)
Temperature range, operation	$^{\circ}\text{C}$ / $^{\circ}\text{F}$	-10 to +50 / 14 to 122
Weight	g / oz	2500.00 / 88.18
Weight with batteries	g / oz	2.5 k / 88.185

GRAS Sound & Vibration



<a href="#">GRAS AK0040</a>	19" Rack mounting System
-----------------------------	--------------------------



-	
---	--

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)

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

**GRAS**  
An Axiometrix Solutions Brand