

# GRAS 12AA



Connection: Traditional 200 V  
Channel(s): 2

GRAS 12AA

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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

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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	$\mu$ Vrms	<1.6
Inherent noise, A-weighted, (20 Hz to 20 kHz), grounded input	$\mu$ Vrms	<1
Inherent noise, A-weighted with dummy preamplifier (20 Hz to 20 kHz),	$\mu$ Vrms	<3.2
Inherent noise, LIN with dummy microphone (20 Hz to 20 kHz)	$\mu$ 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 controllable		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="#"><u>GRAS AB0002</u></a>	Power supply 230 VAC to 15 VDC. EU-connector
GRAS AB0006	Power supply 230 VAC to 15 VDC. UK-connector
<a href="#"><u>GRAS AB0003</u></a>	Power supply 120 VAC to 15 VDC. USA-connector



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

GRAS Sound & Vibration

# 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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