

# GRAS 12AR

2-Channel Power Module



Connection: Traditional 200 V  
Channel(s): 2

The GRAS 12AR Power Module is a dual-channel power supply for preamplifiers used with condenser microphones. It is for general use in acoustic measurements; both in the laboratory and in the field.

## Typical Applications and Use

- General-purpose measurements
- Two channels
- Precision measurements
- Acoustic monitoring
- Microphone calibration
- 0 V or 200 V polarization

## Design

The 12AR can be powered either via the included AA batteries, or an external DC supply (4.5 V - 24V). It is built into a sturdy anodized aluminum cabinet.

The polarization voltage for the microphones fitted to the preamplifiers can be set to 0 V – for prepolarized microphones, or 200 V – for externally polarized microphones.

The 12AR also supplies  $\pm 15$  V to power the preamplifiers. It will run for approximately 30 hours on fresh standard alkaline batteries. A Low Batt LED indicates the condition of the batteries.

The inputs are two 7-pin LEMO sockets on the front panel, which are wired up for GRAS microphone preamplifiers, e.g. 26AB, 26AC, 26AJ, and 26AK, but is also compatible with other available makes of similar microphone preamplifiers.

The signals from the preamplifiers are AC coupled to the outputs which are standard BNC sockets also on the front panel.

## Warranty

All GRAS products are made of high-quality materials that will ensure life-long stability and robustness. The 12AR is delivered with a 2-year warranty. The warranty does not cover products that are damaged due to negligent use.

## Service and Repairs

All repairs are made at GRAS International Support Center located in Denmark. Our Support Center is equipped with the newest test equipment and staffed with dedicated and highly skilled engineers. Upon request, we make cost estimates based on fixed repair categories. If a product covered by warranty is sent for service, it is repaired free of charge, unless the damage is the result of negligent use or other violations of the warranty.

CONDITIONING		
Frequency response ( $\pm 0.2$ dB)	Hz	0.05 to 200 k
Output channel(s)		2
Output impedance	$\Omega$	30
Direct coupling input to output		No
Linear mode		No
Type	Traditional power supply (LEMO)	
Input channel(s), traditional power supply		2
Preamplifier supply	V	+15
Polarization voltage	V	0 / 200
Overload indication		No
PC controllable		No
External filter option		No
Power amplifier overload detection		No
POWER SUPPLY		
Power supply, battery		4 x LR6 (AA)
Power supply, external	Vdc	4.5 to 24
Power consumption	mA	45
Battery life	h	30
Battery low indication		Yes
Fuse	mA	160 (slow)
Temperature range, operation	$^{\circ}\text{C} / ^{\circ}\text{F}$	-10 to +50 / 14 to 122
Weight	g / oz	540.00 / 19.05

GRAS Sound & Vibration reserves the right to change specifications and accessories without notice.

## Included Items

AA alkaline batteries	Batteries included
One of these Power Supplies:	(Depending on country)
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 Sound & Vibration reserves the right to change specifications and accessories without notice.

# 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