

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 by internal standard batteries or an external DC supply (4.5 V–24 V), e.g. a mains/line adapter. 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 ± 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 (± 0.2 dB) | Hz | 0.05 to 200 k |
| Output channel(s) | | 2 |
| Output impedance | Ω | 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 controlable | | 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.

Accessories

| | |
|-------------|--------------------|
| GRAS AB0002 | Mains/line adapter |
|-------------|--------------------|

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
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
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
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
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

grasacoustics.com

GRAS
An Axiometrix Solutions Brand