

# GRAS 12AD

1-Channel Power Module



Connection:  
Traditional 200 V  
Channel(s): 1

The GRAS 12AD Power Module is a single-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
- Precision measurements
- Acoustic monitoring
- Microphone calibration
- 0 V or 200 V polarization

## Design

The 12AD 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 aluminium cabinet.

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

The 12AD also supplies  $\pm 15$  V to power the preamplifier. It will run for approximately 50 hours on fresh standard alkaline batteries. A Low Batt LED indicates the condition of the batteries.

The input 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 similar microphone preamplifiers.

The signal from the preamplifier is AC coupled to the output which is a standard BNC socket also on the front panel.

## Warranty

All GRAS products are made of high-quality materials that will ensure life-long stability and robustness. The 12AD 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.

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|  |   |                                 |
|--|---|---------------------------------|
| CONDITIONING                               |   | .                               |
| Frequency response ( $\pm 0.2$ dB)         | Hz                                      | 0.05 to 200 k                   |
| Output channel(s)                          |   | 1                               |
| Output impedance                           | $\Omega$                                | 30                              |
| Direct coupling input to output            |   | No                              |
| Linear mode                                |   | Yes                             |
| Type                                       |   | Traditional power supply (LEMO) |
| Input channel(s), traditional power supply |   | 1                               |
| Preamplifier supply                        | V                                       | $\pm 15$                        |
| 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                                      | 35                              |
| Battery life                               | h                                       | 50                              |
| 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                                  | 520 / 18.342                    |

## Accessories

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

### Extension cables with 7-pin LEMO connectors

|                             |   |
|-----------------------------|---|
| <a href="#">GRAS AA0008</a> | 3 m                                       |
| <a href="#">GRAS AA0009</a> | 10 m                                      |
| GRAS AA0012                 | 30 m                                      |
| GRAS AA0014                 | 100 m                                     |
| GRAS AA0020-XX              | Custom, XX specifies the length in metres |

### Extension cables with BNC connectors

|                             |   |
|-----------------------------|---|
| GRAS AA0034                 | 2 m                                       |
| <a href="#">GRAS AA0035</a> | 3 m                                       |
| GRAS AA0036                 | 5 m                                       |
| <a href="#">GRAS AA0037</a> | 10 m                                      |
| GRAS AA0038                 | 30 m                                      |
| GRAS AA0039-XX              | Custom, XX specifies the length in metres |

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

# GRAS Worldwide

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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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**GRAS**  
An Axiometrix Solutions Brand