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.

GRAS Sound & Vibration
Skovlytoften 33, 2840 Holte, Denmark
www.grasacoustics.com

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 ± 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 GRASmicrophone 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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Specifications

CONDITIONING		.
Frequency response (±0.2 dB)	Hz	0.05 to 200 k
Output channel(s)		1
Output impedance	Ω	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	+-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	35
Battery life	h	50
Battery low indication		Yes
Fuse	mA	160 (slow)
Temperature range, operation	°C / °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

GRAS AA0008	3 m
GRAS AA0009	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
GRAS AA0035	3 m
GRAS AA0036	5 m
GRAS AA0037	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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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

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