

# Power Module Type 12AD

## Product Data and Specifications

### Typical applications and features

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

The G.R.A.S. Power Module Type 12AD (Fig. 1) 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.

The Type 12AD can be powered either by internal standard batteries or an external DC supply (4.5 V - 6 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 Type 12AD also supplies  $\pm 15\text{V}$  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 (see Fig. 2) for G.R.A.S. microphone preamplifiers, e.g. Types 26AB, 26AC,



Fig. 1 Power Module Type 12AD

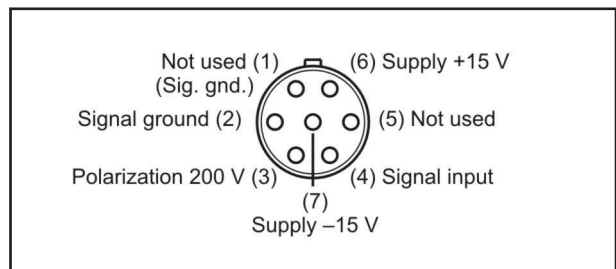


Fig. 2 7-pin LEMO female socket 1B (external view)

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.

## Specifications

<b>Input/Output sockets:</b> Input: ..... 7-pin LEMO 1B female Output: ..... BNC coaxial	<b>Fuse:</b> 160 mA (Slow), 250V
<b>Output voltages:</b> Pre-amplifier supply: ..... $\pm 15$ V Polarization voltage: ..... 0 V or 200 V	<b>Battery life (valid for 23 °C and alkaline cells):</b> $\approx 50$ hours
<b>Frequency response:</b> 0.05 Hz - 200 kHz: ..... $\pm 0.2$ dB	<b>Operating temperature range:</b> -10 °C to +50 °C
<b>Output impedance:</b> 30 $\Omega$	<b>Dimensions:</b> Height: ..... 60 mm (2.36 in) Width: ..... 105 mm (4.13 in) Depth: ..... 130 mm (5.12 in)
<b>Power supply:</b> 4 x LR6 (AA) standard alkaline cells, or Mains/line adapter: ..... 4.5 V - 6 V DC	<b>Weight:</b> Without batteries ..... 520 g (1.15 lbs)
<b>Power consumption:</b> With a G.R.A.S. preamp.: ..... 35 mA	<b>Accessories included:</b> EL0001: ..... 4 x LR6 (AA) batteries
	<b>Accessories available:</b> Mains/line adapter: ..... AB0005

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