

# Power Module Type 12AN

## Product Data and Specifications

### Typical applications and features

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

The G.R.A.S. Power Module Type 12AN (Fig. 1) is a four-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 12AN can be powered either by internal standard batteries or an external DC supply (6 V - 20 V), e.g. the supplied mains/line adapter. It is built into a sturdy anodized aluminium 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 Type 12AN also supplies  $\pm 15$  V to power the preamplifiers. With four G.R.A.S. preamplifiers, it will run for approximately 25 hours on fresh standard alkaline batteries. A **Low Batt** LED indicates the condition of the batteries.



Fig. 1 Power Module Type 12AN

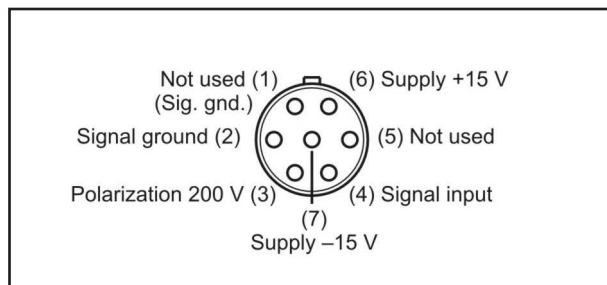


Fig. 2 7-pin LEMO female socket 1B (external view)

The inputs are 7-pin LEMO sockets on the front panel, which are wired up (see Fig. 2) for G.R.A.S. microphone preamplifiers, e.g. Types 26AB, 26AC, 26AJ and 26AK, but are also compatible with other available makes of similar microphone preamplifiers.

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

*Specifications*

<b>Input/Output sockets:</b> 4 x Inputs: ..... 7-pin LEMO 1B female 4 x Outputs: ..... BNC coaxial	<b>Battery life (valid for 23 °C and alkaline cells):</b> With 4 G.R.A.S. preamps.: ..... ≈ 25 hours
<b>Output voltages:</b> Preamplifier supply: ..... ± 15 V Polarization voltage: ..... 0 V or 200 V	<b>Operating temperature range:</b> ..... -10 °C to +50 °C
<b>Frequency response:</b> 0.05 Hz - 200 kHz: ..... ± 0.2 dB	<b>Dimensions:</b> Height: ..... 44 mm (1.73 in) Width: ..... 210 mm (8.27 in) Depth: ..... 194 mm (7.64 in)
<b>Output impedance:</b> ..... 30 Ω	<b>Weight:</b> Without batteries ..... 1.2 kg (2.65 lbs)
<b>Power supply:</b> 4 x LR6 (AA) standard alkaline cells, or Mains/line adapter: ..... 6 V - 20 V DC	<b>Accessories included:</b> EL0001: ..... 4 x LR6 (AA) batteries Mains/line adapter supply regulated to 15 V DC
<b>Power consumption using an ext. power supply:</b> With 4 G.R.A.S. preamps.: ..... 135 mA	AB0002: ..... for 230 V AC or AB0003: ..... for 120 V AC
<b>Fuse:</b> ..... 200 mA (Slow), 250 V	

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