

# Amplifier Dual



## LB0082-001 Dual Amplifier

### Description:

The IEC Dual Amplifier LB0082-001 provides two independent amplifiers that are used for different purposes:

- Wide bandwidth, 10Hz to 10MHz AC amplifier with a fixed gain of 100.
- Audio frequency from DC to 10kHz, selectable DC or AC operation and gain up to 500 over 6 switchable steps.

Either amplifier is switched ON from the front panel and the centre position of the switch is OFF. An LED indicates which amplifier is active. Both amplifiers use a common 9V supply from a rack of 6x 'AA' batteries accessible through the rear panel and LED flashes as batteries require replacement. A loud speaker is fitted to one end panel and can be switched from the front panel. The wide band amplifier has a fixed gain of 100 and there are no controls relating to its operation.

The audio amplifier can be selected as DC or AC and, in the DC mode, an Offset control compensates for any 'drift' by permitting the setting of zero output when the input is zero. This offset function is not required when running as an AC amplifier. The gain can be set at 10, 20, 50, 100, 200 or 500. All connections are by 4mm sockets and two sockets are provided for either input and for either output.

Length: 200mm	Width: 170mm	Height: 85mm	Weight: 0.8kg
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## Specifications:

### AC Wide Bandwidth Amplifier:

**Gain:**

100 (40dB) can be used to increase the input sensitivity into oscilloscopes or similar. Output can be monitored by voltmeter.

**Range:**

10Hz to 10MHz minimum (-3dB)

**Input impedance:**

10kOhm with 20pF capacitance in parallel.

**Output impedance:**

Approx 35 Ohms.

### AC/DC Audio Amplifier:

**AC mode band width:**

10Hz to 10kHz

**DC mode band width:**

DC to 10kHz

**Input resistance:**

220kOhm

**Gain is switchable at:**

10, 20, 50, 100, 200 and 500

**Output:**

Approximately 4V peak to peak at open circuit. The DC output can be adjusted with the offset control by +/-1 volt.

A loud speaker is fitted to one end of the housing and can be switched from the front panel.

### Battery:

Bank of 6x 'AA' batteries providing 9V operation and accessible by removal of a panel at the rear face of the instrument. As batteries become flat, the power LED flashes.

Designed and manufactured in Australia