



AMPLIFIER, DC - for E/magnetic induction etc.

Cat: LB0071-001 very low input impedance

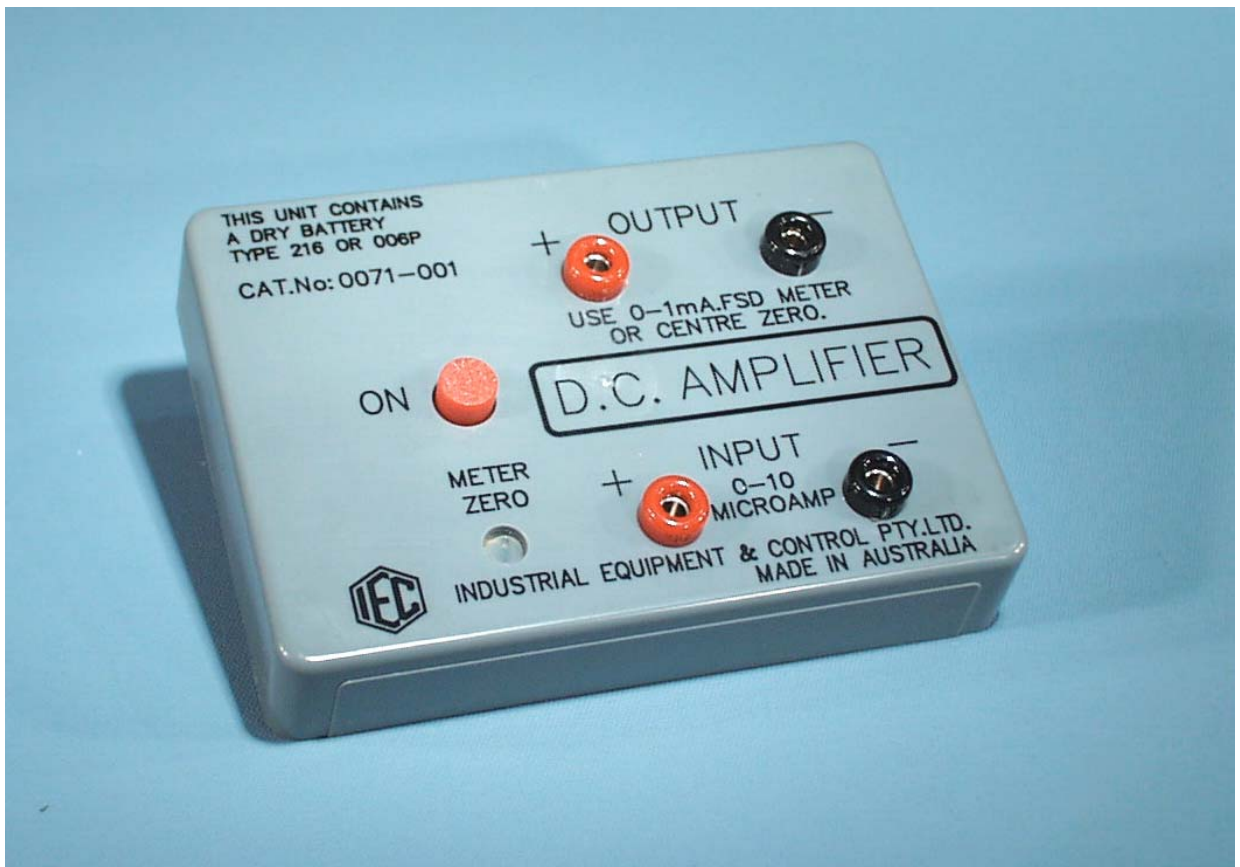
DESCRIPTION:

This unit is used to amplify very small currents (which are difficult to measure) to a value that may be easily measured on a standard bench meter. Amplification or gain is about 100x so that a very small input current of say 10 microamp will provide an output current of approx. 1 milliamp into a normal bench milliamp meter or multimeter.

Low Impedance: The input impedance is extremely low so that the unit will operate with extremely small input voltages from low resistance sources. A single turn of wire moved adjacent to a magnet will produce a readable deflection on a 0-1mA meter.

Bi Directional: The unit will operate for both positive and negative currents. A centre zero meter can be used since both the input and the output of the amplifier are bi-polar for handling positive and negative currents.

LB0071-001



Physical size:

Weight: kg

Designed and manufactured in Australia by Industrial Equipment and Control Pty Ltd

Distributed by

Scientrific Pty Ltd

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**INSTRUCTIONS FOR USE:**

When a milliamp meter is connected to the output sockets and the input sockets are short circuited, there should be close to zero current flowing in the output. If current is flowing in the output, the instrument should be calibrated for 'zero set'.

Setting instrument zero:

- Connect an 0-1mA bench meter or multimeter to the output sockets.
- Short circuit the input sockets.

Press the small button on the front panel and, while holding the button pressed, adjust the screwdriver control until the output is zero mA. This zero setting should not require alteration very often.

CAUTION:::: DO NOT CONNECT ANY POWER SOURCE DIRECTLY ACROSS ANY TERMINALS.

Battery is standard type #216 9V transistor battery. Current drain is approx. 5mA when the button is depressed. Battery life is approx. 50 hours of actual current reading time.

If the input is carrying current but the output no longer operates a meter, the battery may need replacement. To replace the battery, remove the base and unsnap the old battery from its clip.

Connections for normal use:

- Connect an 0-1 milliamp meter (preferred) to the output sockets. Other meters can be used: e.g. 100-0-100uA, 500-0-500uA, 0-10mA, 0-100uA etc.
- Connect very low current source to the input terminals. e.g. Franck Hertz tube anode, Electromagnetic Induction, a wire sweeping past a magnet, Mutual Induction coil.
- Press and hold the button to read approx.100x input current.

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