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IPC Irwin Microphone

Part Number IPC-4220-W

User Instructions



INTRODUCTION.

The IPC Irwin Microphone has been designed for a number of applications and experiments requiring the use and demonstration of audio input, including voice and music waveforms. The Microphone can be used for a range of audio experiments as well as in conjunction with a number of other IPC Irwin products.

DESCRIPTION.

The electret condenser type microphone is mounted in a moulded plastic case with two standard 4mm output sockets for electrical connection. The unit itself is powered by a PP3 type 9V battery and an LED indicator is provided to show the battery status, a power switch is also included to conserve the battery power. The microphone itself has a sensitivity of -42db, a frequency response of 20Hz to 20kHz, and an output impedance of 2.2k ohms.

INSTRUCTIONS.

Simply connect your 4mm test leads to the two output sockets located on the top of the unit, then connect the leads to a suitable audio receiver or an oscilloscope. **Note:** to reduce signal noise we recommend using a screened (coax) cable and following the 4mm output socket polarity. When connecting to an oscilloscope we also recommend the following settings:-

Voltage	= 5mV/div.
Timebase	= 2.5ms/div.
Coupling	= AC
Trigger	= adjusted accordingly

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Battery Fitting.

To fit the PP3 9V battery slide open the battery cover on the back of the case, then clip the connector found inside to the battery, finally refit the cover to the back of the case.

SPECIFICATIONS.

Electrical Supply	= 9V Battery, type: PP3
Dimensions	= 36 x 68 x 120mm overall
Mass	= 0.1kg (including battery)
Sensitivity	= -42db
Output Impedance	= 2.2k ohms
Frequency Range	= 20Hz to 20kHz

Please Note: This Equipment is for Education, Training, or research Purposes Only.

Thank you for choosing this IPC Irwin product, which has specifically been designed for education and we know it will bring you good service long into the future. This is just one product of a wide range of UK designed and manufactured products to enhance a STEM education. Please see www.ipcirwin.com website for more details on the products and service we provide to support teaching and learning in science and technology.

IPC Irwin also provide Portable Appliance Testers and a Calibration service, for more details please go to www.ipcirwin.com or call our sales and technical support line on 015395 58555.



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