



ELECTROMETER

Cat: LB1840-001 (240/12V.AC. PlugPak) LB1840-101 (240V.AC. mains)

DESCRIPTION:

An Electrometer is a device used for the measurement of extremely small voltages, electric charges and currents. The voltage ranges begin at 0-2mV so that microvolts can be measured. The current ranges begin at 0-2 nanoamps and the electric charge ranges begin at 0-2 nanocoulombs. Output is provided for a logger or plotter.

Instruments such as this are useful for measuring charge on Aepinus Capacitor plates or the electric charge around an electrostatic rod, or the current passing through an 'insulator' or similar.

Both low voltage (PlugPak operated) and 240V.AC. mains models of this equipment are available. Both models have the same front panel appearance and functions.

LB1840-101 240V.AC mains model



Physical size: 270x170x105mm LxDxH

Weight: 1.4 kg

UNITS FOR THE ELECTROMETER:

The units used when using the Electrometer are as follows:

Voltage: 'Millivolts'. (mV. equal to 10^{-3} volts.)

Charge: 'Nanocoulomb'. (nC. equal to 1×10^{-9} Coulombs or 6.25×10^9 electrons.)

A 1 Farad capacitor at 1 Volt contains 1 Coulomb of charge.

Current: 'Nanoamps'. (nA. equal to 1×10^{-9} amps.)

