

Electricity Kit

For DC & AC



EM1763-010

Description:

- The IEC “Electricity Kits” contain all the instruments and parts for the extensive teaching of both DC and AC theory.
- No other parts are required from the classroom.
- The kit is housed in a strong aluminium carry case with foam compartments for each component.
- The IEC Electricity Kit is self contained and requires no additional equipment.
- Each component part is strong and well designed for a long life in the hands of students
- This Kit is viewed as the preferred electrical training tool both High Schools and Technical and Trade Colleges.
- All parts are always available separately to make up for any losses of components over the many years of service.
- Variations to the contents of this kit can be arranged
- IEC has produced an extensive set of experiments to go with the Electricity kit. Each experiment is explained in detail and is shown as a schematic image.
- A second image is provided for each experiment displaying the equipment physically connected with the cables from the kit.
- The students can work with the experiment manuals without close supervision.
- Also a useful Glossary is provided explaining all the technical terms used in the experiments.

Length: 485mm	Width: 420mm	Height: 170mm	Weight: 11.4kg
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**Contents of the “IEC Electricity Kit:**

Quantity	Component
1	Power Supply & cable. 220 / 240V.AC. to 2, 4, 6, 8, 10, 12V AC & DC. 5 to 6 amps. Auto overload switch.
1	Signal Generator & cable. 220 / 240V.AC. LED Digital, providing Sine, Square, Triangle and Sawtooth waveforms. From 0.1 Hz to 100 kHz.
1	Set of 12x connection cables fitted with moulded-on 4mm banana plugs.
1	Small dissectible transformer with “U” and “I” core of laminated iron,
1	Set of 4x removable, colour coded coils. 1x 300 Turns, 2x 600 Turns 1x 1200 turns to fit the iron core to create transformers and inductors.
3	Multimeters for both AC & DC. Large LCD display, Auto power off, heavy duty style. Current up to 20 amps and with capacitance measurement.
1	AC / DC Motor / Generator, Hand driven with commutator and slip-rings,
1	Set of 3x plain iron cores for magnetic experiments.
1	Aluminium disc and axle for eddy current brake experiments.
2	Cell holders for “D” cells for some experiments requiring battery.
2	Plastic supports for holding Iron Cores to “U” core.
1	Pair of strong “Alnico” magnets.
1	Set of 3 Magnetic demonstrators to show magnetic fields.
1	Vial containing 10 plotting compasses and 20 MES lamps.
1	Vial containing roll 100m of copper wire 0.2mmD, roll 100m “Constantan” resistance wire 0.2mmD, roll 50m of 1 amp fuse wire 0.05mmD. 4 wires for sockets in the multimeter, 2 paper clips for connectors.
1	Vial containing 4 alligator clips ... can also fit to 4mm banana plugs. 4 alligator clips fitted with banana plugs, 2 electrode plates, copper & zinc. 2 conductivity plates s/steel, size 70x20mm, Thompson’s Ring, Compass for determining north and south poles for experiments.
1	Set of components: 1x Potentiometer, 2x resistors each 50 ohm, 100 ohm, 500 ohm, 2 capacitors each 5uF and 10uF. 3 lamp holders for MES lamps, 1 switch single pole, one way, 1 switch single pole 2 way, 1 connector box.
1	Set of DC experiments and set of AC experiments complete with a very useful Glossary and teaching information.

Designed and Manufactured in Australia