

ELECTRICITY

WORCESTER CIRCUIT BOARD KIT

Based on the Nuffield-type board, but utilising phosphor-bronze flat connection strips. Many of the various experiments which can be carried out with this kit are fully described in the Nuffield Guide to Experiments II and IV. The kit comprises: 1 circuit board; 18 flash lamp bulbs; 1.25V 0.25A M.E.S. cap; 9 connectors with lampholders; 12 plain connectors; 1 connector with a rheostat; 1 silicon rectifier; 1 resistor; 2 flexible leads with 4mm plug and crocodile clip; 2 flexible leads with crocodile clips at each end; 2 crocodile clips; 2 connectors with bell pushes; 2 soft iron nails; length of 20 s.w.g. bare copper wire; length of 34 s.w.g. bare eureka wire; length of 26 s.w.g. P.V.C. covered copper wire; 1 electrode support disc, packet of pencil leads; 1 sheet of copper foil; a piece of steel wool. This kit does not include batteries.

P50-9100 Worcester Circuit Board Kit

Spare Parts

P50-9150 Circuit board

P50-9160 Connectors with lampholders, pack of 10

P50-9170 Plain connectors, pack of 10

P50-9180 Connector with rheostat

P50-9190 Silicon rectifier, pack of 10

P50-9200 Resistor, pack of 5

P50-9210 Flexible leads with 4mm plug and crocodile clip, pair

P50-9220 Flexible leads with crocodile clips, pair

P50-9230 Mounted bell push, pair

P50-9240 Soft iron nails, pack of 20

P50-9250 Electrode support discs, pack of 10

P50-9265 Pencil leads, pack of 5

P50-9270 Copper foil, pack of 10

P50-9280 Steel wool, pack of 450g

Bulbs, 1.25V 0.25A - see **P56-9000**

Batteries - see **P56-1000**

Reel of 20 s.w.g. bare copper wire - see **P56-6140**

Reel of 34 s.w.g. bare eureka wire - see **P56-6790**

Reel of 26 s.w.g. enamelled copper wire - see **P56-6350**

Crocodile clips - see **P56-3100**

AC CIRCUITS EXPERIMENT KIT

A 'passive' (unpowered) instrument used by teachers and students as a convenient, high power set of inductors, capacitors and resistors which can be used as loads and/or circuit components in various combinations by wiring the components into an external AC power circuit. Each component is connected to a 4mm spin-free socket head terminal for either banana plug or wiring connection.

Experiments using Electric Motors, measuring or altering Power Factor, Resonance, Time Constants, Power Dissipation and Oscillators can be performed.

For practical technical work or for industrial use, all devices are insulated to 240V a.c. rating and all resistors and inductors are rated at 2 amps. If the maximum current of 2 amps is used, high power dissipation would result. The rear face of the instrument is well ventilated for this reason.

Two handles are provided for ease of carrying.

Dimensions: 360 x 290 x 250mm (l x w x h)

Weight: 8kg

Components included: 3x resistors 1Ω, 2amp; 1x resistor 10Ω, 2amp; 1x resistor 25Ω, 2amp; 2x resistors 50Ω, 2amp; 2x resistors 100Ω, 2amp; 8x capacitors 8μF, 250V.wkg; 1x inductor 0.1H, 2amp; 1x inductor 0.2H, 2amp.

P50-9700 AC Circuits Experiment Kit



P50-9100



P50-9700