

B SIMPLE VOLTAIC CELL

One copper and one zinc plate, size 90 x 25 x 1.5 mm, each with a terminal, with battery jar of size 150 x 100 mm
P50055

C PLATES FOR SIMPLE CELL

Each plate is fitted with a 4 mm socket terminal.

- P50060/1** Zinc 90x25x1.5 mm
- P50060/2** Copper 90x25x1.5 mm
- P50060/3** Lead 90x25x1.5 mm
- P50060/4** Carbon 90x 25 x 6 mm

D PLATES FOR SIMPLE CELL

As per P50060, but fitted with brass terminal.

- P50065/1** Zinc 90x25x1.5 mm
- P50065/2** Copper 90x25x1.5 mm
- P50065/3** Lead 90x25x1.5 mm
- P50065/4** Carbon 90x 25 x 6 mm

E DANIEL CELL

Outer copper vessel 125 x 75 mm with perforated shelf and terminal, a porous pot 150 x 50 mm and a zinc rod 125 x 12 mm, with support and terminal.
P50080

F ZINC ROD

Size 125 x 12 mm, with terminal.
P50090

G POROUS POT

Cylindrical

- | | |
|-----------------|-------------|
| | Ht x diam |
| P50110/1 | 150 x 50 mm |
| P50110/2 | 150 x 60 mm |
| P50110/3 | 150 x 75 mm |

H LECLANCHE CELL in GLASS VESSEL

Porous pot filled with a mixture of manganese dioxide and carbon, and a zinc rod with brass terminal.
P50115

I LECLANCHE CELL IN PLASTIC VESSEL

As above but with plastic vessel
P50117

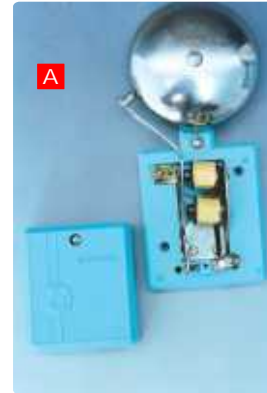
POROUS POT FOR LECLANCHE CELL

Filled, with terminal
P50120



A ELECTRIC BELL

Twin coil, in plastic cover, operates from 3 to 6 V. a.c./d.c.
P50125

**B BELL PUSH**

P50128 Plastic body
P50130 Fitted on base, with sockets

**C DEMONSTRATION ELECTRIC BELL**

Mounted on panel, large size parts and visible wiring. Operates on 4-6 volts.
P50133

**MORSE KEY**

On base, with three terminals and pivoted contact arm with adjustable spring,
P50136

D MORSE SOUNDER

Open construction, on wood base with two terminals, with two coils forming an electromagnet, tension adjustment on the armature.
P50138

**E MORSE KEY AND SOUNDER COMBINED**

Mounted on polished wooden base, a convenient unit which is serviceable for a line as well when two such units are used.
P50140

**F TELEGRAPH SET, VERTICAL TYPE**

Set of two units. Each unit is fitted with one morse key, one sounder and on/off switch for battery, with two battery and two line terminals. All connections are visible. Each unit is workable on 4-6 volts d.c.
P50144



G TELEPHONE SET, LECTURE PATTERN

Set of two vertical units, each unit consists of a microphone, a receiver, bell and transformer, with visible wiring connections. Workable with 4-6 V d.c.

P50148**H WORCESTER CIRCUIT BOARD**

Enables students to investigate nature and properties of electricity by using simple circuits which are easily constructed on a base board. The connector system uses p.c.b. strips with cut-out sections whose ends can easily be inserted in spring terminals, ensuring low contact resistance and ease of connection. The kit consists of:

- 1 Baseboard, plastic. with spring terminals and three battery holders.
- 3 Batteries
- 10 Lamps 1.25 V m.e.s.
- 6 Lamp holders mounted on p.c.b. connectors
- 10 Plain connector p.c.bs.
- 1 Wire wound potentiometer with crocodile clip connections
- 1 Silicon diode
- 1 Resistor 3.9 ohm 2.5 W
- 1 pair Leads, red, with crocodile clip at each end
- 1 pair Leads, black, with crocodile clip at each end
- 1 pair Leads, yellow, with crocodile clips at each end
- 2 Switches mounted on p.c.b. connectors
- 2 Soft iron nails, 5 cm long
- 2m Bare copper wire, swg 20
- 2m Bare eureka wire, swg 34
- 2m Plastic covered copper wire
- 1 Electrode support
- 10 Pencil lead electrodes
- 1 Sheet copper foil, 150 mm square
- 1 Pack Steel wool
- 1 Instruction manual in English.

P50152**I WESTMINSTER ELECTROMAGNETIC KIT**

A very effective and motivating learning aid in elementary electromagnetism. Consists of 8 anisotropic alloy magnets, 8 ceramic ferrite magnets, 4 steel magnet yokes, 6 plotting compasses, 4 hardboard formers to take compasses, 1 bottle iron filings 250 gm, 4 dispensers for iron filings, 4 double C-cores, 4 clips for C-cores, 4 aluminium rings, 4 aluminium split rings, 4 armatures with axle tubes, 4 aluminium axle rods, 8 split pins, 16 rivets, 4 formers for coils, 4 reels cello tape, 4 reels copper wire, 4 sheets white pasteboard, 4 plain postcards, 4 reels white cotton thread, 1 length latex rubber tubing, 4 each resistors 100 ohms and 10 ohms, 4 support bases, 10 m.e.s. bulbs, 8 mes bulb holders, 1 wood clamp, 1 wooden block, with instructions.

P50160**J POWER SUPPLY, 2 V**

For Westminster Electromagnetic Kit giving 1 V full wave rectified d.c. and 1 and 2 V a.c. outputs at 8 A max. The circuit diagram is printed on the top panel which also carries mains switch, light indicator and output sockets for d.c. and a.c. With 1.5 metre mains detachable cable.

P50163

DEMOUNTABLE TRANSFORMER

Comprising transformer stand & core, low voltage coils and main voltage coils, as detailed below:

A TRANSFORMER STAND AND CORE

Apparatus is designed primarily for demonstration of the basic principles of transformers. It consists of a laminated U-core with laminated I-core, both with 32 x 25 mm cross section to form a closed core of size 102 x 127 mm. Heavy aluminium alloy stand with removable clamping rods, 2 pole pieces, each 65x30 x25 mm with one end cone shaped, to accept support rod and shading ring. Poles also have a hole drilled through lengthwise to take a light beam.

P50175

**B LOW VOLTAGE COILS, FOR DEMOUNTABLE TRANSFORMER**

Each wound on a rectangular insulated bobbin, connections by 4 mm sockets spaced at 19 mm

P50175/1 300 turns

P50175/2 600 turns

**C MAINS VOLTAGE COILS, FOR DEMOUNTABLE TRANSFORMER**

Wound on rectangular bobbin, for use with 220 - 240 mains. With detachable mains connector with moulded plug, A 4 mm socket is provided for earthing.

P50175/3 1200 turns

P50175/4 3600 turns

P50175/5 12000 turns

**D ACCESSORIES SET FOR DEMOUNTABLE TRANSFORMER**

Comprising 1 welding coil of 5 turns on former with insulated handle and short-circuiting pins, 1 annular melting trough with insulated handle to show heating by induction, 1 jumping ring which is thrown clear when primary current is started and a floating ring which remains freely suspended when primary current is flowing.

P50180



E DEMONSTRATION TRANSFORMER

With one mains coil, 240 V, 50 Hz, 2400 turns and two interchangeable secondary coils 65 and 130 turns giving outputs of 6 and 12 V approximately at 2 A maximum.

P50185

**ELECTRIC MOTORS, MINIATURE.**

See P20370/20375

F MOTOR CONSTRUCTION KIT

To build 3 motor models as in Westminster electromagnetic kit consisting of 6 magnets, 3 armatures, 3 mild steel yokes, 3 support bases, 3 shafts, 12 rivets, 6 split pins, 1 reel pvc tinned copper wire 26 swg, 1 reel sellotape, and 150 mm latex tubing 2 mm bore.

P50200

**G ELECTRIC MOTOR MODEL**

Open construction, shows all parts, operated by 4-6 V battery. Mounted on a wooden base. Can be fitted with Newton's colour disc.

P50205

**H ELECTRIC MOTOR MODEL**

Operates on 4-6 V battery, on wooden base with two 4mm socket terminals, provided with self induced magnetic field.

P50207

**I ELECTRIC MOTOR, DEMONSTRATION**

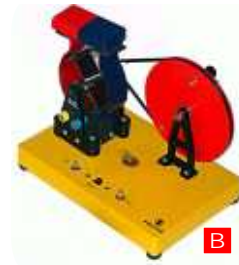
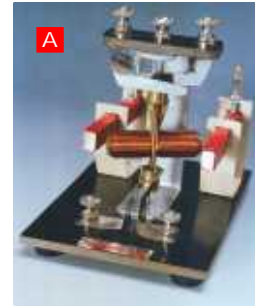
A simple form of d.c. motor with 2 pole armature wound with insulated copper wire and a permanent magnetic field provided by a removeable bar magnet, with a commutator and phosphor bronze brushes connected to 4 mm sockets, open construction, all parts visible.

P50213

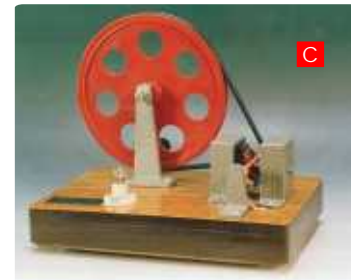


A ELECTRIC MOTOR ST. LOUIS

The motor consists of a two pole armature mounted between the ends of two bar magnets. The armature has a two section commutator and a pair of slip-rings on its shaft and is so constructed that the wire cannot slip off the iron core. The upper bearing and brushes for the commutator are mounted on a strong upright. Separate brushes are provided for the commutator and for slip rings and each is connected to a terminal. The magnets are held in position by thumb screws.

P50215**B DEMONSTRATION DYNAMO MODEL**

The motor cat no P50213 is mounted on a base with a driving wheel. Output is through 4 mm sockets and a low voltage bulb is also provided as a simple output indicator.

P50218**C DYNAMO**

With driving wheel, to generate current, mounted on polished wood base with driving wheel in vertical position, a lamp holder and a lamp.

P50220/1 Output d.c. current**P50220/3** Output both d.c. and a.c. current**D BICYCLE DYNAMO ASSEMBLY**

A cycle dynamo, with crank handle, is fitted on base with two output terminals which are connected in parallel to a lamp holder with a lamp.

P50223**E DOUBLE 'C' CORE & CLIP**

As used in Westminster Electromagnetic Kit. Size 90 x 50 x 22 mm.

P50225**F PAIR OF COILS, 120 TURNS**

Each centre tapped, wound on plastic former, to fit double 'C' core, with three 4 mm socketed terminals.

P50227

PAIR OF COILS, 2400 TURNS

As above but with 2400 turns, with three 4 mm socketed terminals

P50230

COIL, 240 TURNS

Centre tapped, to fit 'C' core, with three 4 mm socketed terminals

P50232

G COIL, HIGH INDUCTANCE

For use on double 'C' core, wound with 1,100 turns of 22 swg copper wire with a resistance of about 6 ohms and inductance of about 15 henries, size 100 x 60 x 55 mm approx.

P50235

H INDUCTION COIL, RUHMKORFF

Coils are wound with highly insulated copper wire impregnated with paraffin wax, input 6-8 V d.c. through two 4 mm socket terminals, with an adjustable trembler system. The spark suppression capacitor is housed in the base. A pair of pointer electrodes with insulated handles for adjustment of the spark gap are provided.

	Spark Length
P50238/1	10 mm
P50238/2	25 mm
P50238/3	50 mm
P50238/4	75 mm
P50238/5	100 mm

INDUCTION COIL, ELECTRONIC

Solid state electronic induction coil resulting in a very reliable and efficient system. There is no trembler contacts to wear or to require adjustment. Fitted with reversing switch. Operates on 220V A.C.

	Spark length
P50240/1	25 mm
P50240/2	50 mm
P50240/3	75 mm
P50240/4	100 mm

I THERMOCOUPLE, SINGLE

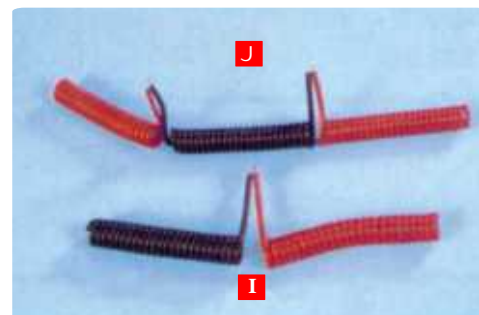
Copper and constantan wires twisted together at one end and soldered for about 20 mm. Length of the coiled lead is about 50 mm.

P50310

J THERMOCOUPLE, DOUBLE

Copper-constantan-copper, to form hot and cold junctions. Length of soldered junctions is about 38 mm The coiled lead is about 50 mm long.

P50314



THERMOCOUPLE, DOUBLE, MOUNTED

As above but mounted on base with insulated stand and terminals.

P50315

**A THERMOCOUPLE, SINGLE**

Bars of bismuth and antimony soldered together with coiled connecting leads, which can be extended to 500 mm approx.

P50318

B THERMOPILE

Comprising 112 copper constantan couples in series and arranged in the form of a rectangle, with sensitive area of 18 x 22 mm. With a metal cone to increase directional selectivity. The inner surface of the cone is polished. With a pair of 4 mm sockets, on stand. The e.m.f. of the pile is of the order of 4 mV per °C difference between the hot and cold junctions.

P50325

**C THERMOPILE**

Comprising 24 bismuth-antimony couples connected in series and in form of a rectangle, with cone, on stand.

P50329

**D PLATINUM RESISTANCE THERMOMETER**

Platinum wire of about 2 ohms resistance, non-inductively wound on a mica frame with copper leads, together with a pair of compensatory leads, all being connected to 4 mm socket terminals, for temperatures upto 150°C.

P50335

**E WHEATSTONE BRIDGE, ONE METRE**

Comprising a resistance wire swg 24 stretched along a metre scale subdivided in mms and marked every cm., is clamped to stout brass plates so as to avoid end errors. A plated brass strip with 4 mm socket terminal is fitted along the metre rule to provide a two gap system for normal wheatstone bridge work. Complete with jockey.

P50401



F WHEATSTONE BRIDGE

Four gap system, enabling two additional resistances to be interpolated in the additional gaps, enables greater accuracy of measurement by reducing unwanted resistances to a minimum. Two brass strips are provided to close the gaps when so required. Complete with jockey.

P50404**G POTENTIOMETER**

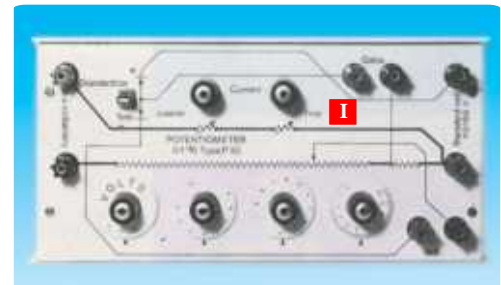
A one metre long single resistance wire passes over a metre scale and is firmly clamped to stout brass end-plates, on wooden base. Complete with knife-edge jockey.

P50415**H JOCKEY**

For wheatstone bridge and potentiometer, with insulated handle, plated brass contact and a plated brass terminal with 4 mm socket.

P50417**I POTENTIOMETER, DECADE PATTERN**

Four dial decade box with direct readout from 0 to 2 V, in four ranges. Two way switch for "Test" and "Standardise" sections, with coarse and fine current controls. With four pairs of terminals for connection to a 4.5 V battery, standard cell, galvanometer and the cell under test. Circuit diagram is printed on the panel. Accuracy is better than $\pm 0.1\%$

P50420**J RESISTANCE SUBSTITUTION BOX**

Set of 12 preferred value carbon resistors with rotary selection switch, in box. Values are 33 ohms, 7 W; 100 ohms, 7 W; 330 ohms, 4 W; 1 Kohm 1W; 3.3 Kohm 0.5W; 10 Kohm, 33 Kohm, 100 Kohm, 330 Kohm, 1 Mohm, 3.3 Mohm and 10 Mohm, all rated 0.25 W.

P50430

A RHEOSTAT, SINGLE TUBE

A layer of oxidised resistance wire is wound on a porcelain tube which is supported by end supports. A sliding contact and three 4 mm socket terminals are provided for use as a rheostat or as a potentiometer.

Tube diameter 38 mm

Range	Ohms	Amp	Tube Length
P50445/1	1400	0.3	200 mm
P50445/4	150	1	200 mm
P50445/6	30	2.3	200 mm
P50445/8	10	4	200 mm
P50446/6	50	2.3	300 mm
P50446/8	16	4	300 mm
P50446/9	10.4	5	300 mm

Tube diameter 43 mm

P50450/6	23	2.3	150 mm
P50450/7	10	3.3	150 mm
P50452/5	22	2.8	200 mm
P50453/3	24	3.3	250 mm
P50455/5	28	4.2	400 mm

B**RHEOSTAT, PROTECTED**

Single tube, for use with high voltage upto 220 V, fitted with 4 mm socket terminals, with protected cover.

	Resistance in ohms	Current in amps
P50460/1	3	12
P50460/2	10	8
P50460/3	33	4.4
P50460/4	100	2.5
P50460/5	330	1.4
P50460/6	1000	0.8

RHEOSTAT, STEEL TUBE

A layer of oxidised resistance wire is wound on unbreakable vitreous enamelled steel tube providing better cooling and strength. Tube fitted with metal end supports, sliding contact is of multileaf phosphor bronze type with smooth contact, fitted with three 4mm socket terminals.

Tube diameter 30 mm, tube length 300 mm.

	Resistance in ohms	Current in amps
P50465/1	8	5
P50465/2	14	4.5
P50465/3	18	3.5
P50465/4	38	2.5
P50465/5	75	1.8
P50465/6	190	1
P50465/7	260	0.9
P50465/8	675	0.5
P50465/9	1925	0.3



**RHEOSTATS WITH
OTHER RANGES
ARE ALSO
AVAILABLE**

C RESISTANCE COIL

With transparent cover, non-inductive visible winding, insulated support, with brass terminals.

P50468/1	0.1 ohm
P50468/6	5 ohm
P50468/2	0.2 ohm
P50468/7	10 ohm
P50468/3	0.5 ohm
P50468/8	20 ohm
P50468/4	1 ohm
P50468/9	50 ohm
P50468/5	2 ohm
P50469/5	100 ohm

F RESISTANCE UNIT

In black plastic round case, with two 4 mm socket terminals, accuracy $\pm 1\%$

P50485/1	0.1 ohm
P50485/6	5 ohm
P50485/2	0.2 ohm
P50485/7	10 ohm
P50485/3	0.5 ohm
P50485/8	20 ohm
P50485/4	1 ohm
P50485/9	50 ohm
P50485/5	2 ohm
P50486/5	100 ohm

D RESISTANCE COIL

With transparent cover, non-inductive visible winding, insulated support, with brass terminals. Square end supports.

P50470/1	0.1 ohm
P50470/6	5 ohm
P50470/2	0.2 ohm
P50470/7	10 ohm
P50470/3	0.5 ohm
P50470/8	20 ohm
P50470/4	1 ohm
P50470/9	50 ohm
P50470/5	2 ohm
P50471/5	100 ohm

G RESISTANCE UNIT

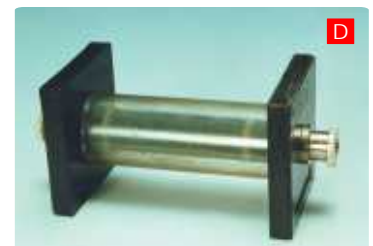
In black plastic rectangular case, with two 4 mm socket terminals, accuracy $\pm 0.5\%$

P50490/1	0.1 ohm
P50490/6	5 ohm
P50490/2	0.2 ohm
P50490/7	10 ohm
P50490/3	0.5 ohm
P50490/8	20 ohm
P50490/4	1 ohm
P50490/9	50 ohm
P50490/5	2 ohm
P50491/5	100 ohm

E RESISTANCE COIL

As above, but with 4 mm socket brass terminals

P50473/1	0.1 ohm
P50473/6	5 ohm
P50473/2	0.2 ohm
P50473/7	10 ohm
P50473/3	0.5 ohm
P50473/8	20 ohm
P50473/4	1 ohm
P50473/9	50 ohm
P50473/5	2 ohm
P50474/5	100 ohm

**RESISTANCE COIL**

Similar to cat. no. P50470 but of unknown value, resistance value is not mentioned but each coil is marked with an alphabetical code.

	Code	Ohm
P50480/1	B	1.3
P50480/2	C	4.7
P50480/3	D	16
P50480/4	G	89
P50480/5	J	515



A RESISTANCE UNITS, INTERLOCKING

in plastic case 57x25 mm (diam x depth) with 4 mm terminals, one of which is fitted with a copper slotted lug for being connected to another unit, non-inductively wound, adjusted to $\pm 0.1\%$ of nominal value.

P50550/1	0.1 ohm	P50550/6	5 ohm
P50550/2	0.2 ohm	P50550/7	10 ohm
P50550/3	0.5 ohm	P50550/8	20 ohm
P50550/4	1 ohm	P50550/9	50 ohm
P50550/5	2 ohm	P50551/5	100ohm

**B RESISTANCE COIL, PRECISION**

In metal case, with plastic top and two current & two potential terminals. Accuracy $\pm 0.05\%$

P50555/1	0.1 ohm	P50555/6	5 ohm
P50555/2	0.2 ohm	P50555/7	10 ohm
P50555/3	0.5 ohm	P50555/8	20 ohm
P50555/4	1 ohm	P50555/9	50 ohm
P50555/5	2 ohm	P50556/5	100 ohm

**C RESISTANCE BOX, PLUG PATTERN**

All plugs are turned to a fine standard taper and are interchangeable. These are moulded in fluted plastic tops. The brass blocks are undercut and are fitted to a thick insulating plate. Heavy 4 mm brass terminals are used. Coils are non-inductively wound and are treated to be strain-free. Coil values are engraved on the plate and an infinity plug is also included. Accuracy $\pm 0.5\%$ for 0.01 to 0.05 ohm coils, $\pm 1\%$ for the rest.

P50560/1	0.01 to 0.1 ohm,	total 0.2 ohm
P50560/2	0.1 to 1 ohm,	total 2 ohm
P50560/3	0.1 to 5 ohm,	total 11 ohm
P50560/4	0.1 to 10 ohm,	total 21 ohm
P50560/5	0.1 to 50 ohm,	total 111 ohm
P50560/6	0.1 to 100 ohm,	total 211 ohm
P50560/7	0.1 to 500 ohm,	total 1,111 ohm
P50560/8	1 to 10 ohm,	total 20 ohm
P50560/9	1 to 50 ohm,	total 110 ohm
P50561/4	1 to 100 ohm,	total 210 ohm
P50561/5	1 to 500 ohm,	total 1,110 ohm
P50561/6	1 to 1000 ohm,	total 2,110 ohm
P50561/7	1 to 5000 ohm	total 11,110 ohm



RESISTANCE BOX, DECADE PATTERN

For rapid measurement and hard use. Each dial has a zero position and 10 steps, with fully aged constantan coils. Accuracy $\pm 0.1\%$. Available in wooden/metal box.

D SINGLE DIAL

- P50565/1** 0.1 to 1 ohm in steps of 0.1 ohm.
P50565/3 1 to 10 ohms in steps of 1ohm
P50565/5 10 to 100 ohms in steps of 10 ohms
P50565/7 100 to 1000 ohms in steps of 100 ohms
P50565/9 1000 to 10000 ohms in steps of 1000 ohms

E TWO DIALS

- P50567/1** Units and tens, total resistance 110 ohms
P50567/3 Hundreds and thousands, total resistance 11,000 ohms

F FOUR DIALS

- P50570/1** Range 0.1 to 1,110 ohms,
P50570/3 Range 1 to 11,110 ohms,

G POST OFFICE BOX, PLUG TYPE

Plug type, with three pairs of ratio coils of 10, 100 and 1000 ohms and 16 series coils from 1 to 5000 ohms, total 11,110 ohms, giving a range from 0.01 ohm to 1,111,000 ohms. Two tapping keys are provided for battery and galvanometer. Accuracy ratio coils $\pm 0.05\%$, others $\pm 0.1\%$.

P50580**H POST OFFICE BOX, WHEATSTONE BRIDGE**

With two ratio dials of 10, 100 and 1000 ohms each and a resistance arm of four dials, each of ten coils of 1, 10, 100 and 1000 ohms, giving total resistance of 11,110 ohms, with 4 mm socket terminals for battery, galvanometer and unknown resistance. Highly stable resistances are used. Accuracy $\pm 0.1\%$.

P50585**I KELVIN BRIDGE**

For precision measurement of low resistances, range 10⁻⁴ to 1 ohm. With a rotary dial having ten coils of 0.1 ohm each and a circular slide wire resistance reading in steps of 0.001 ohm. A multiplier of 0.1 enables readings upto 0.0001 ohm. Separate current & potential terminals are provided. Properly aged manganin coils are used. Accuracy $\pm 0.1\%$ or $\pm 0.2\%$ of the slide wire length whichever is greater.

P50590

A CAPACITANCE SUBSTITUTION BOX

With rotary switch and a pair of 4 mm socket terminals. contains twelve standard preferred value non-polarised capacitors from 100 pF to 0.47 μ F. Tolerance $\pm 2\%$. Values are 100 pF, 220 pF, 470 pF, 1nF, 2.2 nF, 4.7 nF, 10 nF, 22 nF, 47 nF, 0.1 μ F, 0.22 μ F and 0.47 μ F.

P50601**B DECADE CAPACITANCE BOX**

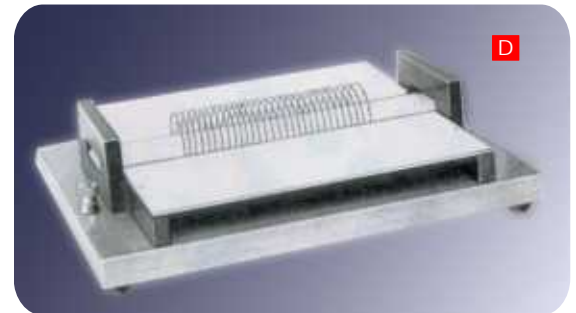
Contains four capacitors of 1 μ F, 2 μ F, 2 μ F, and 5 μ F linked in parallel, each via an ON/OFF slide switch. Can be linked together to provide upto 10 μ F in 1 μ F steps. External connections by 4mm socket terminals.

P50604**C CAPACITANCE BOX**

Single dial, compact size, housed in metal box with dial and knob. Connections through 4mm socket terminals. Accuracy $\pm 2\%$. Maximum voltage 250 volts d.c.

P50610/1 10 nF to 100 nF in steps of 10 nF**P50610/2** 100 nF to 1000 nF in steps of 100 nF**P50610/3** 1 μ F to 10 μ F in steps of 1 μ F**P50610/4** 10 μ F to 100 μ F in steps of 10 μ F**P50610/5** 100 μ F to 1000 μ F in steps of 100 μ F**D OPEN WOUND SOLENOID**

Wide spaced heavy gauge copper wire coil to carry current upto 10A is mounted on a base with 4 mm socket terminals. A platform is supported across the centre of the coil to show the field by use of iron filings or a small compass. Dimension of coil 150 x 50 mm diam.

P50630**E SEARCH COIL, 100 TURNS**

Approx 1.8 ohms, is mounted on a tubular metal handle through which flexible leads pass.

P50637**F SEARCH COIL, 800 TURNS**

The coil having 800 turns and a mean diam of 5.5mm is completely recessed near one end of a long perspex handle and connects to 4 mm socket terminals at the other end.

P50640