

HAINES EDUCATIONAL PHYSICS BEST SELLERS

+
**THE 2023
HAINES SCIENCE
CATALOGUE
IS HERE**
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YOUR COPY

**A SELECTION
OF TOP QUALITY
PRODUCTS FROM IEC
ALL AUSTRALIAN MADE**

PLEASE FORWARD TO THE SCIENCE COORDINATOR

CLASSROOM DIGITAL METERS

The most accurate, reliable and indestructible DC meters ever, the three models cover 0-20 x 10 mA, (LB2122-001), 0-2x 1mA, (LB2122-010) and 20x 10mV (LB123-001). Reversible polarity, large displays, auto off. Light and compact, able to withstand massive overload. A must for all senior schools.

- LB2122-001 Ammeter, +/- 20A.DC, x10mA, AUTO PWR OFF
LB2122-010 Ammeter +/- 2A.DC, x 1mA, AUTO PWR OFF
LB123-001 Voltmeter +/- 20V.DC, x10mV, AUTO OFF



\$110
each



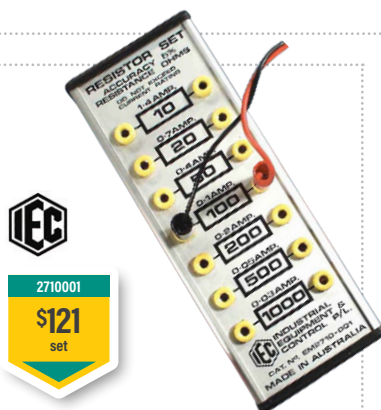
**BEST
SELLER**

POWER SUPPLY

For banana plugs and alligator clips, with front mounted on/off switch, overload trip.

2633001

\$189
each



IEC

2710001

\$121
set

RESISTOR SET

A versatile new resistor set that enables combinations of resistors to be used in circuits. Robust, ventilated and compact, the permissible current is marked for each resistor, while the 12 volt maximum across each resistor makes this an easy-to-use unit for all relevant studies.

IEC

1003001

\$486
kit

**BEST
SELLER**

DIGITAL COLORIMETER

A sturdy unit for the measuring of concentrations of solutions. The LCD display can provide either 'Transmission' or 'Absorption' measurements. Internal red, yellow, green, and blue LED light sources with +/- 2% reproducibility. Operate on 9V battery (included) or standard 240/12V AC (not included). Includes instructions, 6x cuvettes, 4x test tubes.



IEC

2668001

\$248
each

MAGIC SOURCE

Designed for the simulation of radioactive sources, this unit is completely safe and requires no shielding. Microprocessor controlled, it is reliable and shows counts in the same way as the real thing, and allows some difficult concepts to be grasped.



IEC

1884001

\$875
each

GEIGER COUNTER

For the detection and counting of Alpha or Beta particles and Gamma rays. Continuous or timed counts with digital display. Maximum counting rate 10 kHz, Battery or plug operation. Instructions and applications available.





AP2343-001

\$121
each

PLANCK'S CONSTANT APPARATUS

This IEC equipment is simple to use and produces reproducible results that correspond closely to the original. Requires a micro ammeter, a 20V meter and a DC power supply, this low cost experiment is suitable for Year 11/12 Physics. Instructions included.

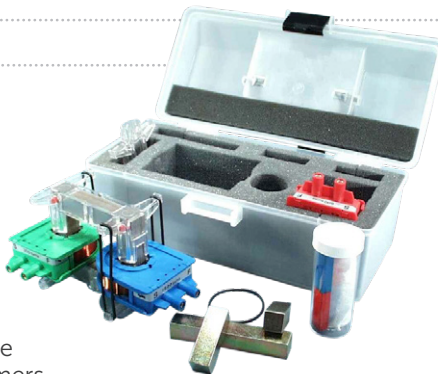


EM4089-001

\$198
each

DISSECTIBLE TRANSFORMER

A versatile and instructive kit for studying transformers, inductors and motors. With pre-wound coils, replaceable iron cores to study eddy currents, losses and heating. Levitation, electromagnetic demonstration. AC or DC operation. In heavy duty carry case.



EM1100-001

\$145
each

COULOMB METER

Used to accurately measure the electric charge (the 'quantity of electricity') by means of a 1 microfarad capacitor. The current that may be flowing through a resistor, or the charge collected from a Van Der Graff machine is shown on an LED screen. Range to 1.999 nano Coulombs. 25 mm collector plate included. 9v battery required.



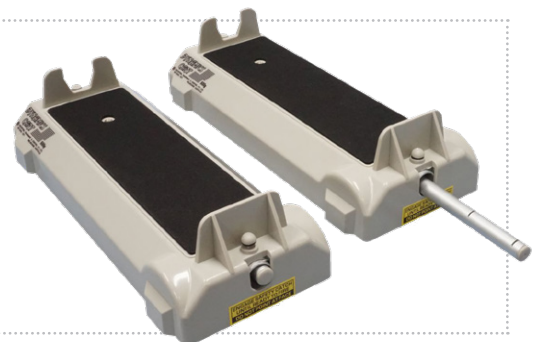
DYNAMICS CART

PERFECT FOR INCLINED PLANE & BENCHTOP EXPERIMENTS

The safest and sturdiest dynamics carts in the market. With inboard low friction wheels to avoid tangles. Supplied as pairs and each cart has the full pin firing facility. A safety catch is included that allows the firing pin to be locked and unable to fire.

MF0945001

\$175
pair



2060001

\$135
each

HODSON LIGHT BOX

HODSON 12V, STANDARD KIT

The comprehensive kit of parts permits many experiments in basic optics and colour blending.



3791001

\$55
each

SPECTROSCOPE, DIRECT VISION

A compact device for measuring the wavelength of light. An adjustable slit allows the light to enter the black chamber and the viewing eyepiece carries a 600 line/mm grating. The eye sees the incoming light split into its colours or wavelengths that appear to be deflected to the right hand side. With wavelength scale & adjustable slit.



WAVE MOTION APPARATUS

'POWELL'S PATTERN' WITH ROTATING SCALE

For demonstrating longitudinal and transverse motion. Consisting of a number of eccentric disc supporting a series of metal rods on revolving the handle, transverse waves are obtained. Longitudinal waves are obtained with bent rods running in a metal guide on a metal base.



SW4250-001
\$185
each



2193201
\$55
each

HODSON MOTOR KIT, SET OF 2

SELF BUILD, IN JAR

This motor kit in a jar allows the students to wind their own electric motor and to make the brushes required to run it. Knowledge comes from the exercise of winding the motor and predicting results.



MF2593-001
\$52
each



UNIVERSAL BENCH PULLEY

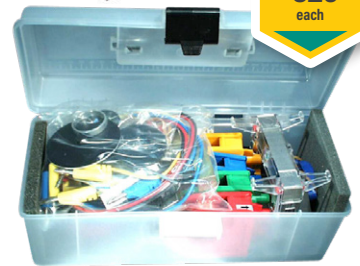
A extra heavy duty pulley that, when clamped to a bench up to 40 mm thick, can be extended, or rotated to the horizontal. The bench clamp can also be used to hold retort rods.

HODSON INDUCTION KIT

A hands on unit designed for the construction, study and understanding of magnetic induction, transformers and AC/DC motors, as well as a number of related topics. Safe due to low voltage inputs, with easily identified parts in carrying case. Curriculum based with instructions.



1973001
\$326
each



LB2628-001
\$425
each



POWER SUPPLY, DIGI PAK

This compact unit is designed for general laboratory purposes and electronics where voltage regulation and smooth, ripple free supply is needed. LED display DC output on one side, 5 amp maximum low voltage AC or DC, or regulated DC on the other.



2635001
\$267
each



SELECTAVOLT POWER SUPPLY

Designed to replace batteries, this unit has a stable output of 1.5, 3 or 6 volts, with 2 amp continuous output. With regulated output for charging nicad batteries. Fully overload protected



3753101
\$370
each



MINI WAVE DIGITAL SIGNAL GENERATOR

The most versatile signal generator on the market, the unit will produce all standard wave forms with an output of up to 1 amp and a range of 0.1Hz to 99.999 KHz. Easy set buttons, adjustable output, many extra features. With full instructions.



3806001
\$320
each



STROBOSCOPE

A digital versatile unit for determining the speed of the periodic motion of any moving object such as wheels, axles, pendulums, vibrators, springs etc. Ideal for engineers and the classroom, it has sockets for external input as well as internal setting. Measures in Hertz or RPM.



4134101

\$660
each

VAN DE GRAAFF GENERATOR

Newly designed for ease of use and maintenance, this unit uses a silicone band for greater voltage and life. With spare motor drive belt. Accessories available. Full instructions available.



3792020

\$484
each

SODIUM LAMP (INCLUDING POWER SUPPLY)

Ideal for spectral studies. This low cost Sodium Lamp & Power Supply is a compact and self contained instrument. Powered from 220/240V AC mains with a removable mains cable.

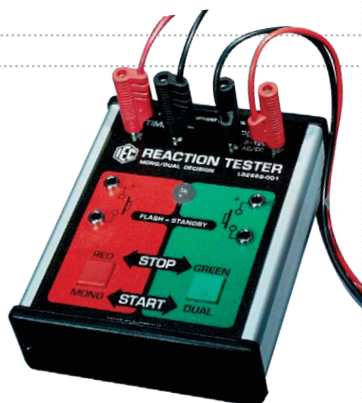


2669001

\$198
each

REACTION TESTER

For the determination of reaction times of a person under varying conditions. Variable delay, remote input and design, ideal for biology and psychology. Complete with detailed notes and instructions. Needs Multi timer 2669001, standard power supply.



YOUNG'S FRINGES

The double slit experiment was the basis for quantum theory, and this set of three 50x50 mm mounted slits enable this experiment to be reproduced easily. With slits of 0.05 mm, the three different spacing clearly show the interference fringes caused by the wave property of light.

HL4850001

\$28
each



HOT PLATE

SIMMERSTAT CONTROL

A general purpose laboratory hot plate with 'Simmerstat' temperature control and high temperature alloy plate for even plate temperature. Comes with plain or PTFE-coated hot plate.

- Power : 240V.AC. 600W
- Max plate temperature : +450°C
- With heat adjustable knob 1-10

CODE	DESCRIPTION	PRICE \$
1920001	With cast plate	375
1921001	With PTFE-coated plate	405



HOT PLATE

THERMOSTAT CONTROL

A general purpose laboratory hot plate with 'Thermostat' temperature control and high temperature alloy plate for even plate temperature. Comes with plain or PTFE-coated hot plate.

- Power : 240V.AC. 600W
- Temperature range : +50 to +320°C
- With thermostat control knob

CODE	DESCRIPTION	PRICE \$
1922001	With cast plate	460
1923001	With PTFE-coated plate	490



STIRRER/HOT PLATE

SIMMERSTAT CONTROL

A general purpose laboratory magnetic stirrer & hot plate with 'Simmerstat' temperature control and high temperature alloy plate for even plate temperature. Comes with plain or PTFE-coated hot plate.

- Power : 240V.AC. 600W
- Max plate temperature : +450°C
- With heat adjustable knob 1-10

CODE	DESCRIPTION	PRICE \$
2090001	With cast plate	540
2091001	With PTFE-coated plate	570



STIRRER/HOT PLATE

THERMOSTAT CONTROL

A general purpose laboratory magnetic stirrer & hot plate with 'Thermostat' temperature control and high temperature alloy plate for even plate temperature. Comes with plain or PTFE-coated hot plate.

- Power : 240V.AC. 600W
- Max plate temperature : +450°C
- With heat adjustable knob 1-10

CODE	DESCRIPTION	PRICE \$
2092001	With cast plate	615
2093001	With PTFE-coated plate	645