TUTORKIT MICROELECTRONICS TUTORS

Renowned for their reliability, robustness and ease of use



"With their accompanying booklets, these well designed units provide sufficient material for most introductory courses in the subject... The handbooks deserve a special word" - Times Ed Supplement

(Following items are shown on the right below)

LT1A Combination Logic Tutor - LT1A has a selection of AND, OR, NOT, NAND, NOR, EX-OR and AND-OR-INVERT logic gates to cover all aspects of Combinational Logic.

LT2A Sequential Logic Tutor- Everything you need for a first course in flip-flops, counters and shift registers. Has 4 JK Flip-flops, five 3-input NAND gates and three Logic Input Switches, including a "de-bounced" Manual Pulser for driving counters and shift registers.

OT1A Op Amp Tutor - A truly versatile teaching aid for operational amplifier fundamentals. Has a Mode Control Switch, two Potentiometers and a selection of close tolerance resistors, two diodes and a 1% 1mF Capacitor for precision computing. Generate waveforms, solve differential equations, design active filters and more

PB1A I.C.Patchboard - This small patchboard is just what you need for **building your own circuits using solderless connections**. Has a selection of five IC Sockets, three Logic Input Switches, two-speed Clock and de-bounced Manual Pulser.

PSU1A Triple Output Power Supply – A safe and inexpensive Power Supply with components laid out on the front panel to facilitate teaching about PSU design. Provides stabilised outputs of 5V dc at 1A, and twin variable +/- 15V at 100 mA, and safe and isolated low voltage a.c. power. Compatible with all Tutorkits, TTL logic and Linear circuits.

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Three unique teaching aids (shown on left)

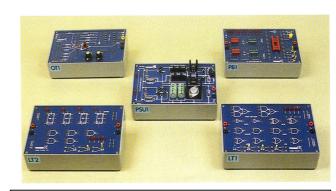
KMD1A Karnaugh Map Tutor - A unique teaching aid for Karnaugh Map and Boolean Logic.

Automatically "plots" the Karnaugh Map for logic circuits with up to four inputs, and displays the "minimum" configuration. How else can you visualise the true minimised function?

IOU1A Computer Input/Output Unit - Can be used for controlling robots, train sets, motors and pumps from outputs of Logic circuits such as the Limrose IC Patchboard and Tutorkits. The IOU1A has four Relay Outputs, four Sensor Inputs and four Logic Switches. Each relay has two 5A changeover contacts terminated in 4mm sockets. External inputs, up to 50V d.c, may be safely connected to any input pins.

SIO Electronic Systems Unit - Ideal for Physics and Electronics courses using the "systems" concept. This unit has Input Sensors, Electronic Processors and Output devices that can be linked together using solderless patch leads. Uses robust, "student-proof" designs using high-gain NPN Transistor, Light Dependent Resistor, Reed Switches, Reed Relay and power NAND Relay with 5A changeover contacts. Output Devices are an Electronic Buzzer, pair of Red and Green LEDs, a filament lamp and a small electric motor.

All units shown on this leaflet, except the PSU1A Power Supply, have accompanying booklets and include 25 Solderless Patch leads (00PL80).



| ORDER INFORMATION | Part No |
|----------------------------------|---------------|
| Combinational Logic Tutor | TK-LT1A |
| Sequential Logic Tutor | TK-LT2A |
| OP Amp Tutor | TK-OT1A |
| IC Patchboard | TK-PB1A |
| Electronics Systems Trainer | TK-SIOA |
| Karnaugh Map Tutor | TK-KMD1A |
| Computer Input/Output Unit | TK-IOU1A |
| Triple Output Power Supply | TK-PSU1A |
| Accessories and Spares: | |
| Light Dependent Resistor | TK-SIOLRD |
| Thermistor on Flying Leads | TK-SIPTP |
| 1mm Patch Leads, Pk 25, assorted | 00PL80 |
| Size 210 x 130 x 175 mm | Weight 0.75Kg |