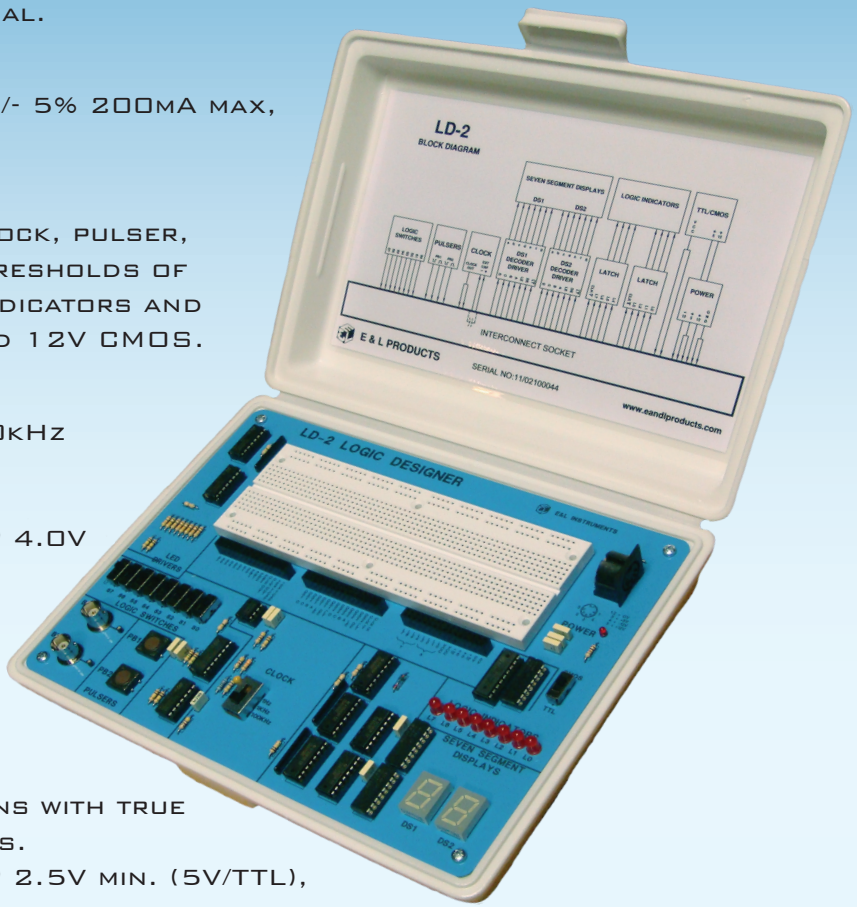
LD-2 Pencilbox Logic Design Trainer

The LD-2 Pencilbox Logic Designer/Trainer permits students to avoid the repetitive building of frequently used circuits.
All functions are internally connected to three solderless interconnect sockets with two tie points for each signal.



DC Power Supplies
+12V +/- 5% 500mA max, -12V +/- 5% 200mA max, +5V +/- 5%1A max.

TTL/CMOS Operation
Selectable output voltage of clock, pulser, logic switches. Input voltage thresholds of seven segment displays, logic indicators and Vcc tie point between 5V, TTL and 12V CMOS.

Clock
1Hz +/- 20%; 1kHz +/- 20%, 100kHz +/- 20%. Also user variable with external capacitor.
Logic "1" output current 2mA @ 4.0V min. (5 V/TTL), 4mA @ 11.0V min. (12 V/CMOS).
Logic "0" output current 2mA @ 0.1V max. (5V/TTL), 5mA @ 0.1max. (12V/CMOS).

Pulsers
Two fully debounced pushbuttons with true logic and complementary outputs.
Logic "1" output current 2mA @ 2.5V min. (5V/TTL), 2 mA @ 11.0 V min. (12 V/CMOS).
Logic "0" output current 2mA @ 0.4V max. (5V/TTL), 5mA @ 0.4V max. (12 V/CMOS).

Logic Switches
Eight SPDT switches select output Vcc or ground.
Output current, all cases: 200mA max.

Logic Indicators
Eight LEDs buffered by two four-bit latches with separate enables.
Input impedance, all inputs: 100K ohms.

Connectors
All functions are permanently tied to three solderless tie point connectors. Each tie point has two solderless connection points. Gnd (ground), +5V, Vcc and clock out have four connection points each.

Dimensions
25.4 x 19.0 x 6.5cm (W x D x H).

Weight
0.71Kg.