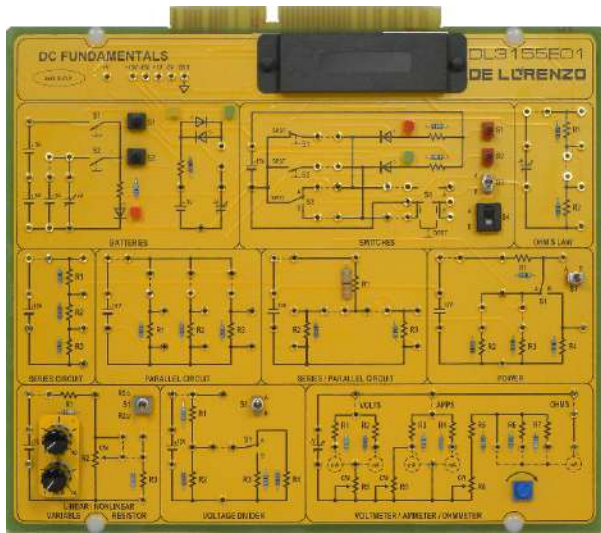




DC FUNDAMENTALS



DL 3155E01

The design and construction of electronic circuits to solve practical problems is an essential technique in the fields of electronic engineering and computer engineering.

With this board, the students can study the principles of the basic electronics which include the use of the batteries, the study of the circuits in series and in parallel, the effect of the power's transfer to a load and the use of the basic instrumentation as Voltmeter, Ammeter and Ohmmeter.

THEORETICAL TOPICS

- DC power sources
- Batteries
- Conventional directions of voltages, e.m.f. and currents
- Ohm's law
- Circuit with linear resistance and non linear resistance
- Series/parallel resistive circuits
- Power in dc circuits
- Linear/non linear variable resistor
- Voltage/current divider circuits
- Direct current meters
- Fault simulation

CIRCUIT BLOCKS

- Batteries
- Switches
- Ohm's law
- Series circuit
- Parallel circuit
- Series/Parallel circuit
- Power
- Linear/non-Linear variable resistor
- Voltage divider
- Voltmeter/Ammeter/Ohmmeter

Complete with theoretical and practical manual.

Dimensions of the board: 297x260mm

CAI SOFTWARE:

Each board of the TIME system can be supplied complete with a Student Navigator software that allows students to perform their learning activities through a Personal Computer, without the need for any other documentation.

Ordering code: please add SW after the code of the board (i.e. DL 3155E01SW)

Required:

POWER SUPPLY NOT INCLUDED

Base frame with power supply (completed with connecting cables):

- **DL 3155AL3** - Base frame with power supply and interface to pc and virtual instrumentation
- **DL 3155AL2** - Base frame with power supply and interface to pc

Basic power supply (connecting cables not included):

- **DL 2555ALF** - DC power supply $\pm 5 \pm 15$ 0 ± 15 Vdc, 1A
- **TL 3155AL2** - Connecting cables

Choosing this power supply, for the execution of the experiments, it is normally required the use of an oscilloscope and two multimeters.

