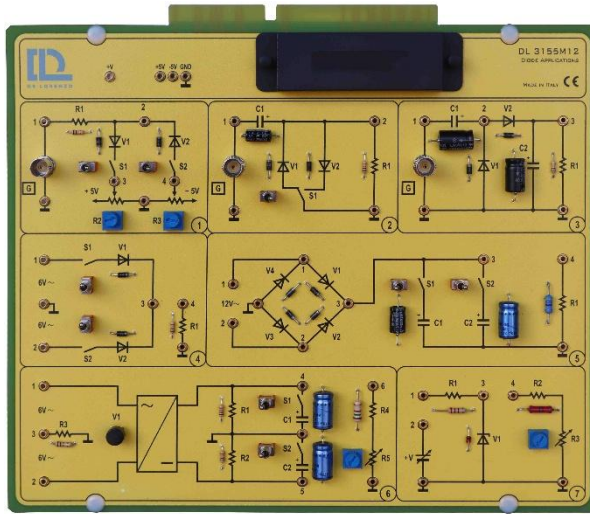




DIODE APPLICATIONS



DL 3155M12

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 various applications of the diodes, from the clipping and clamping circuits up to the rectifiers with filters and their use to produce a continuous power supply dual or stabilized.

THEORETICAL TOPICS

- Behaviour of the diode inserted in circuits that enclose generators of variable signals
- Simple and double clipper circuits
- Clamper circuits
- Half-wave voltage doublers
- Simple half-wave rectifier circuit
- Double half-wave rectifier circuit
- Bridge rectifier circuit
- Power supplies
- Filters
- Regulators

CIRCUIT BLOCKS

- Clipping circuit
- Clamping circuit
- One half-wave voltage doubler
- Simple and double half-wave rectifier
- Diode bridge rectifier (Graetz bridge) with capacitive input filter
- Dual power supply
- Stabilized power supply

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 3155M12SW)

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
- **DL 2555ALS** - AC power supply 24 Vac, 2A
- **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.

