



## ELECTROMAGNETIC COMPATIBILITY (EMC)



**DL 3155E92**

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 effects of the electromagnetic compatibility of an electrical circuit.

### THEORETICAL TOPICS

- Introduction to EMC: Emission, susceptibility, immunity and coupling.
- Introduction to EMC standards.
- Inductive coupling between two conductors.
- Capacitive coupling between two conductors.
- Magnetic coupling between two conductors.
- EMC control.

### CIRCUIT BLOCKS

- Signal generator
- Radiant interference source
- Inductive coupling
- Capacitive coupling
- Radiated emission
- Measurement amplifier
- Sensitive circuit

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 3155E92SW)

### 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 $\pm 15$  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.

