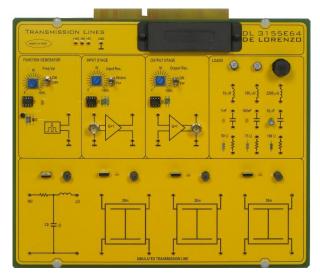
TIME ELECTRONIC BOARDS



TRANSMISSION LINES



DL 3155E64

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 student can study and test the physical principles of the propagation of electrical signals on transmission lines and it can be an introduction to the use of the lines as a main element in communications systems.

THEORETICAL TOPICS

- Introduction to fibre optics communication
- Attenuation
- Numerical openings
- Propagation methods
- Transmitted power specifications
- Chromatic and modal dispersion
- Cable attenuation specifications
- Received power specifications
- Time division (TDM) and wave length division(WDM) transmission

CIRCUIT BLOCKS

- Function generator
- Input and output stages
- RLC simulated coaxial cable transmission line of 80m (4*20m)
- R L C loads

Additional modules for coaxial cable measurements:

- Bridge circuits for RLC measurement (DL 3155E64A1).
- Coaxial cable module (DL 3155E64A2).

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 3155E64SW)

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 2555ALG** DC power supply ±5 ±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.

