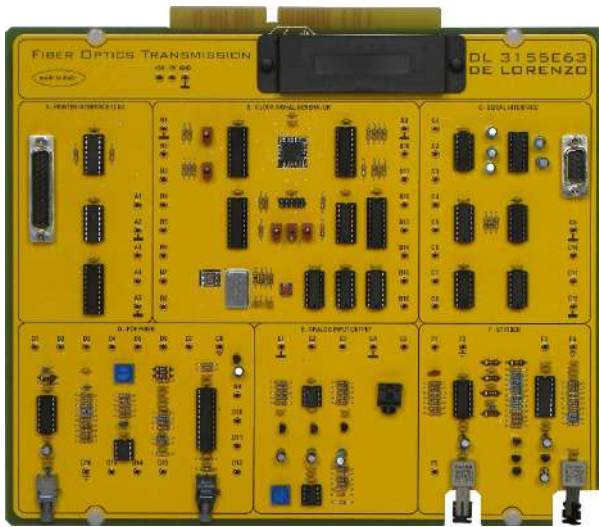




FIBRE OPTICS



DL 3155E63

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 operating principle of the communications through the use of the optical fiber analyzing the distortion characteristics and the quality of the transmitted signals.

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

- Clock signal generation
- Serial interface
- ST fibre
- Analogue input / output
- POF fibre
- Printer interface

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 3155E63SW)

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 $\pm 5 \pm 15$ 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.

