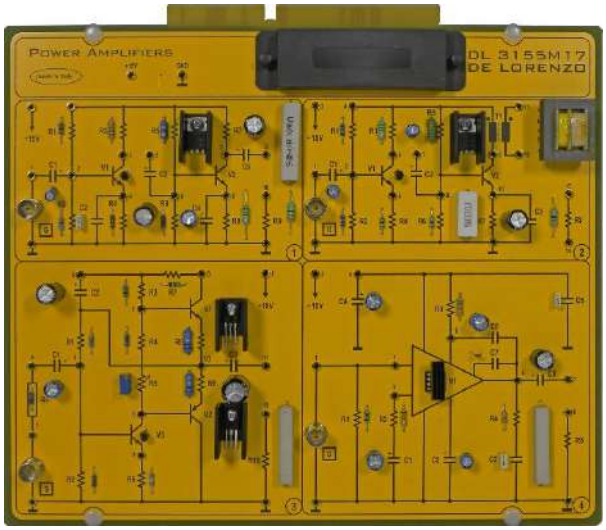
TIME ELECTRONIC BOARDS

POWER AMPLIFIERS



DL 3155M17

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 operation of the most common configurations of power amplifiers in class A, in class A with transformer coupling, in class AB and also as integrated power component.

THEORETICAL TOPICS

- Typical problems relevant to power devices
- Power amplifier parameters
- Classification of the output stages
- Harmonic distortion
- Heat dissipation
- Main circuit configurations
- Class A amplifiers
- Amplifiers with load run by direct current
- Amplifier with output transformer
- Class B output stage
- Fault simulation

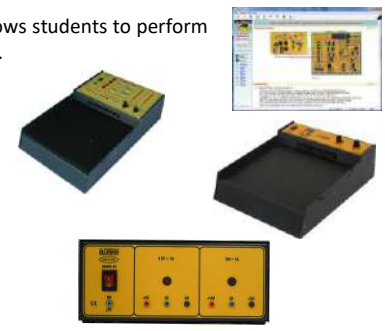
CIRCUIT BLOCKS

- Class A power amplifier
- Class A power amplifier with transformer coupling
- Class AB power amplifier
- Integrated power amplifier

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 3155M17SW)



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.