

## DL 2155COM COMPARATORS

The board is designed to study the operating principle of voltage comparators and to perform experimental checking of the most popular and important circuits realized with these components. The board is divided into four sections for the study of, respectively:

- hysteresis comparator
- zero crossing detector
- window comparator
- amplitude level classifier

The outputs of the comparators are provided with LEDs to show their electrical state.

The board is supplied complete with a set of stackable, plug-in cables of suitable lengths and colours and with a training manual.

Power supply:  $\pm 15$  V, 750 mA

Examples of performable exercises

- Analysis and checking of symmetrical and asymmetrical hysteresis cycle comparators
- Analysis and checking of zero crossing detector and window comparator
- Analysis of amplitude detecting circuits with logic output decoding
- Analysis and checking of

inverting and non inverting voltage comparators



## DL 2155AMP AC AMPLIFIERS AND DC INSTRUMENT AMPLIFIERS

The board is arranged in two separate sections allowing the study of DC instrument amplifiers and AC signal and power amplifiers.

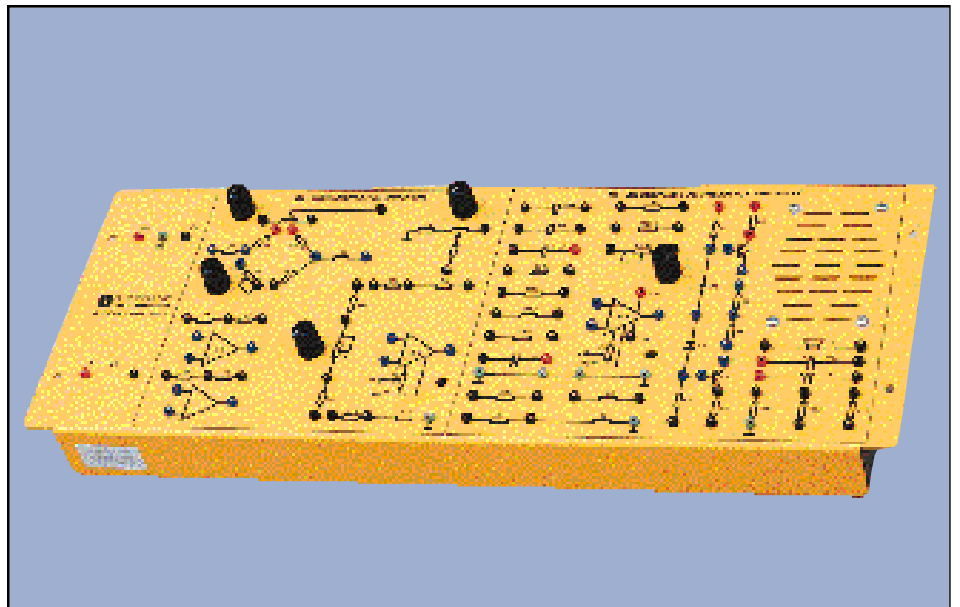
The first section includes three amplifiers allowing the realization of different configurations of DC differential amplifiers with high input impedance.

The same section also includes several resistances and a potentiometer for connection to a Wheatstone bridge for functional checking of balanced input amplifiers.

The second section includes active and passive components that allow the realization of different signal amplifier circuits.

Moreover the board includes a power amplifier realized with a complementary symmetry reverse phase transistor. The board is supplied complete with a set of stackable, plug-in cables of suitable lengths and colours and with a training manual.

Power supply:  $\pm 15$  V, 750 mA



Examples of performable exercises

- Analysis and checking of an AC inverting amplifier with single and dual supply
- Analysis and checking of high input impedance differential amplifiers and balanced bridge input amplifiers
- Analysis and checking of AC adding and differential amplifiers

- Analysis and checking of audio and power amplifiers

