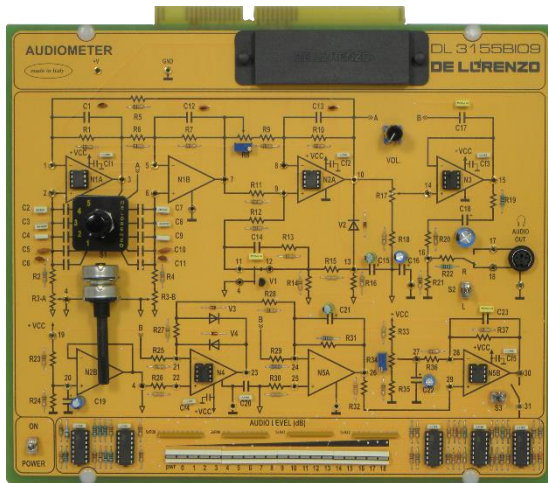




AUDIOMETER



DL 3155BIO9

The design and construction of electronic circuits to solve practical problems is an essential technique in the fields of electronic engineering and computer engineering.

The audiometer is used in the medical field to measure the threshold of hearing sounds. An audio signal generator generates all the frequencies between 20 Hz and 25 kHz. The patient, through a headset, checks the level of sensitivity in his ears.

THEORETICAL TOPICS

- Biophysics of sounds
- Physiology of the auditory system: perception, transmission and conduction of the sound
- Diagnosis and evaluation of the acoustic deficit
- Audiometer

CIRCUIT BLOCKS

- Typical circuit of an audiometer
- Graphical visualization of the hearing sensitivity of a patient in the whole frequency range

Complete with theoretical and practical manual.

Dimensions of the board: 297x260mm

This board does not substitute the medical device under study. The results of the experiments have no medical value. They are just for demonstration purposes.

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 3155BIO9SW)

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 $\pm 5 \pm 15$ Vdc 0 ± 15 Vcc, 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.

