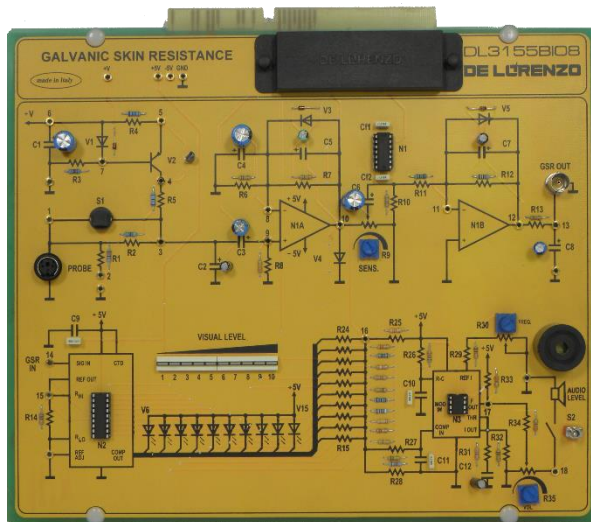




GALVANIC SKIN RESISTANCE



DL 3155BIO8

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

At the passage of an electrical current, the skin shows a resistance that is normally within the 100 kOhm to 1 MOhm range. Such resistance decreases during periods of emotional stress. The changes of the resistance are particularly significant on the palm of the hands and on the plant of the feet. Moreover, the surface of the skin shows an electrical potential, that can reach up to 50mV and that can equally be influenced by emotional states.

THEORETICAL TOPICS

- Galvanic resistance of the skin
- The function of the different skin layers
- The electric characteristic of the skin
- Behaviour of the human body at the passage of an electric current
- Different types of measurements
- Measurement of the resistance and of the potential
- Visual and audio signaling

CIRCUIT BLOCKS

- Variation of the resistance in direct current of the skin with relation to humidity
- Recording of the changes of the galvanic resistance of the skin due to emotional or physical stimuli
- Typical circuit that is used in the monitoring of the GSR

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.



TIME ELECTRONIC BOARDS



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 3155BIO8SW)

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.

