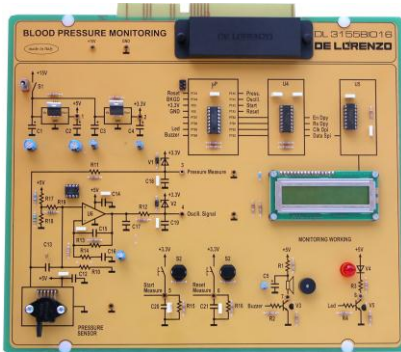




BLOOD PRESSURE MONITORING



DL 3155BIO16

In blood vessels there must be a certain pressure in order that the blood can properly flow. Each heart beat causes a pressure wave that is transferred to the arteries. The upper value (systole) is the maximum pressure that is recorded in the artery in consequence of the heart beat. The lower value (diastole) corresponds to the pressure that we have in the arteries between two heart beats. Therefore, it is necessary to properly evaluate the pressure and its variability through a pressure and heart beat digital meter.

Theoretical topics:

- The blood pressure
- Hypertension
- Measuring the blood pressure
- The sensors

Circuit blocks:

- Measurement of the blood pressure and heart beat
- Evaluation of the average cardiac rate
- Typical circuit used in blood pressure monitoring

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.