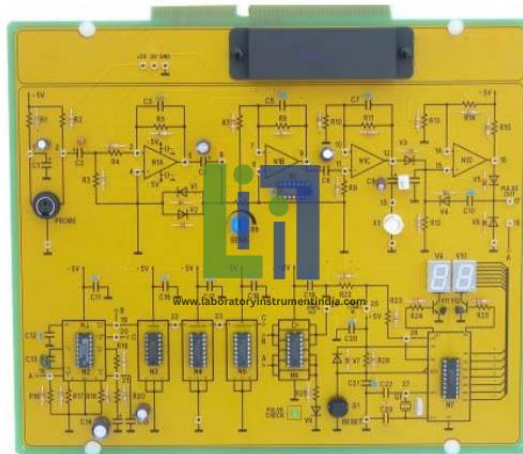




Email : sales@laboratoryinstrumentindia.com

**Product Name :**  
Pulse Rate

**Product Code :**  
LBNY-0005-12400023



#### **Description :**

During the cardiac relaxation period (diastolic period) the pressure decreases, the density increases and the physical dimension of the tips of the fingers decreases. At every heartbeat the arterial blood pressure raises (systolic period) and the dimension of the tips of the fingers slightly increases, while the higher oxygenation causes the decrease of the optical density of the skin tissue. Since these cyclical variations follow the cardiac rhythm, they can be used to measure the frequency of the peripheral pulsations.

Circuit blocks of Pulse Rate

Effects of the temperature on the measurement of the frequency of the pulsations

Recordings of the peripheral pulsations in a finger

Effects of breathing and exercising on the frequency of the pulsations.

#### **Theoretical topics:**

Measurement of the cardiac frequency

The use of optical sensors

Comparator with hysteresis for the processing of the signal provided by the optical sensor

Concept of cardiac rhythm and typical values, in different subjects and in different conditions of the subject.

#### **Technical Specification :**

Pulse Rate



**Laboratory Instrument India**