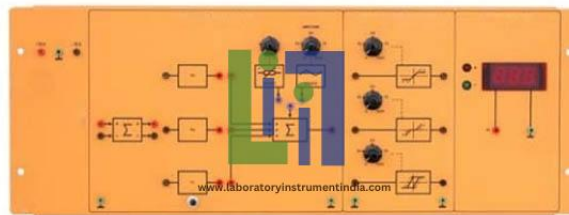




Email : sales@laboratoryinstrumentindia.com

**Product Name :**  
Process Simulator

**Product Code :**  
LBNY-0005-12400096



### **Description :**

This board is basically structured in two sections:

A hysteresis non linear simulation, dead band and threshold it includes a digital voltmeter. The board is supplied complete with a set of stackable, plug in cables of suitable lengths and colours and with a training manual.

A linear process simulation, with two summing amplifiers, three blocks with proportional, integral, derivative transfer functions, offset and drift generators.

Power supply:  $\pm 15\text{Vdc}$ , 300mA

### **Technical Specification :**

#### **Experiments:**

Open and closed loop control of linear systems

Analysis and simulation of linear processes

System with two time constants

Calibration of a control system and criteria for the optimum setting of the PID parameters

Method of permanent oscillation

Method of damped oscillations

Behaviour of the control system against fixed or time variable disturbances

Steady state error

Analysis and study of typical nonlinear elements (saturation, threshold, hysteresis)

Experimental study of the PD controller

Experimental study of the PID controller

Transfer function of the PID controllers

Experimental study of the PI controller.



**Laboratory Instrument India**