

**Product Name :**  
Process Control Simulator

**Product Code :**  
NLAB-TECHNICALAB16005

**Description :**

Process Control Simulator

**Technical Specification :**

Built-in Function generator (Sine & Square wave).  
Variable gain for proportional control (P).  
Variable integral time for integral control (I).  
Variable derivative for derivative control (D).  
Self contained power supplies and power ON/OFF switch.  
Time constant of simple lags - 1ms, 0.47ms.  
Time constant of Integrators - 1s.  
Proportional Band (p)- Corresponding to gain Constants 0.5 to 25.

To determine the time constant and transfer function of first order process.  
To study the open loop response of a simple process.  
To study the closed loop response of a simple process.  
To observe the time response of closed loop second order process with proportional control.  
To study the time response of P + I controller.  
To study the response of P + I + D Controller in a process.

Kit Working voltage: (220-240)VAC.  
Input Voltage: 12V-0-12V AC.  
Input Frequency: 50Hz.  
Output Current: 1 Amps.  
Output Frequency: 100 HZ TO 10KHZ.

## Naugralabequipments

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