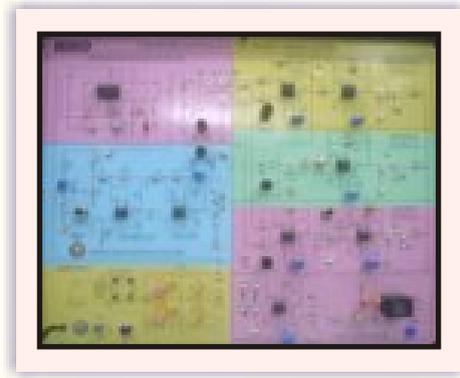




CONTROL SYSTEM LAB

MODEL - CNT100

This trainer has been designed with a view to provide practical and experimental knowledge of Different Control System on a SINGLE PCB.



FEATURES

1. All components are soldered on hollow tags of 0.25" diameter height of 0.4" on the front side of PCB
2. The complete circuit diagram is screen printed on component side of the PCB with circuit and parts at the same place.
3. The true value of component is printed on component side.
4. The PCB with components on front side is fitted in elegant wooden box having lock and key arrangement.
5. The acrylic cover is fitted on PCB to safeguard parts. It has holes for alignment and repair.
6. The testing points are provided with 1.25" tags to connect CRO probe
7. All Trainers are operated on 230V AC mains and must be self-contained unit.

SPECIFICATIONS

1. Demonstrates the principle and working of a Proportional Integral Derivative (PID) Control System with Actual process.
2. Complete system consists of a process unit with process and control unit with sensor.
3. The control unit consists of an RTD PT 100 sensor probe with connecting facilities, its sensor input Circuit P.I.D. control circuits, and power output circuit.
4. Built-in set value adjustment from 0 to 100 deg. C.
5. Built-in facilities to vary proportional gain, integral time and derivative time (coarse & fine Adjustments).
6. Study of effects of integral, derivative and proportional action:
 - 1) Proportional Control (P)
 - 2) Proportional Integral Control (PI)
 - 3) Proportional Integral Derivative Control (PID)
7. Supply required 230V, 50Hz A.C
8. Built-in IC based DC regulated power supply with short circuit protection.
9. Standard Accessories :
 1. User Manual with practical.
 2. Connecting patch cords.

In keeping view of SIGMA policy of continuous development and improvement, the Specifications may be changed without prior notice or obligation.

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