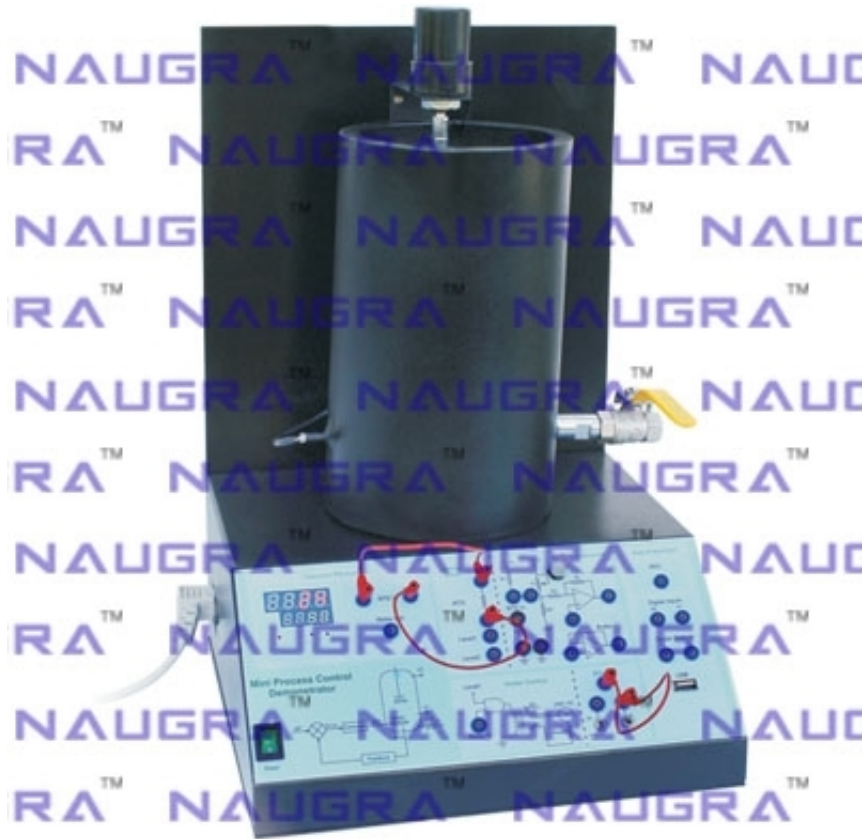


Product Name :

Mini Process Control Demonstrator for Instrumentation Electric Labs

Product Code :

ITT-TR-03



Description :

Mini Process Control Demonstrator - Mini Process Control Demonstrator - In this modern era, instrumentation & control engineering have major share in the industrial growth, whilst process control is a vital concept of it. The functionality and complexity of process control have been increased. Mini Process Control Demonstrator Nvis 3002 explains students and professionals the concepts and working of thermal process control which enables them to learn advance and more complex thermal process; and contribute in the growth of instrumentation arena. It formulates students to accumulate, develop and practice the fundamentals of thermal process control. Mini Process Control Demonstrator Nvis 3002 has sensors like temperature sensor, liquid level sensor, level indicators. Additionally it has safety measures too such as emergency shutdown and overheat protector. There is a wide range of experiments that can be performed on the trainer. It also has facility of computer interfacing with real time graphical analysis which helps to perform mathematical calculations required to state stability of process using methods like root locus, bode plot, etc. This feature increases the scope of doing research and implementing one s innovative ideas related to thermal process control. Study of processor with two position controller, PID controller and optionally with PLC can be done.

Study of Thermal Process Control

Temperature Controller

Use of Industrial Process Control Elements

Signal Conditioning

Control Quality and Optimum Control

Process Loop Tuning & Stable Process

Real-time PC interface with ADC & Digital input/output

Process Control by ON/OFF Controller

Process Control by PID with Auto Tuning

Optional process control by using PLC

Process Control Loops

Mathematical Modeling and Calculations

Stability of Process using Root Locus, Bode Plot , etc

Process Indicators

PC Interface for Open Loop & Closed Loop Control

PC Based Temperature Indicator

Print and Save Feature for Real Time Data and Graph

Real Time Graphical Representation

User Friendly Software

Exhaustive Course Material & References

Learning material CD

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