

Product Name :
Mini Process Control Demonstrator

Product Code :
ISTR0002



Description :

Mini Process Control Demonstrator

Technical Specification :

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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