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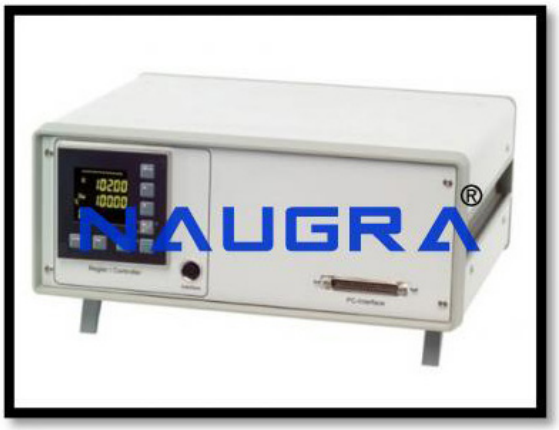
Product Name :	**Product Code :**
Optimization of Control Loops	AR149



Description :

Optimization of Control Loops

Technical Specification :

Optimization of Control Loops
This experimental unit with the interaction between controller and controlled system, the objective being for the closed control loop, comprising the controller and the controlled system, to exhibit the desired optimum response. The setting of controller parameters – a key practical aspect – can be practised safely and intensively using simulation software. Concepts such as open and closed loop control, stability, step response, disturbance and control response are clearly demonstrated.
Experimental unit for controller tuning
Digital controller, configurable as a P, PI or PID controller with interface
Interface for PC
Data acquisition card for PC
Simulation software for different controlled system types, such as first and second order lags, time-delayed systems etc.
Recording and evaluation of time response on pc
Configuration software for process controller
Software via PCI under Windows 7, 8.1, 10 including PC1 Computer-System with 21" TFT-Monitor Win 10 engl.

Technical Data:
Controller
Configurable as P, PI or PID controller
Proportional gain Xp: 0...999,9%

Integral action time Tn: 0...3600s
Derivative time Tv: 0...1200s
Process variables as analogue signals: 0...10V
Controlled system simulation models with proportional, integral, first-order lag, second-order lag
Time-delayed response, non-linearity and limitation possible
230V, 50Hz, 1 phase

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