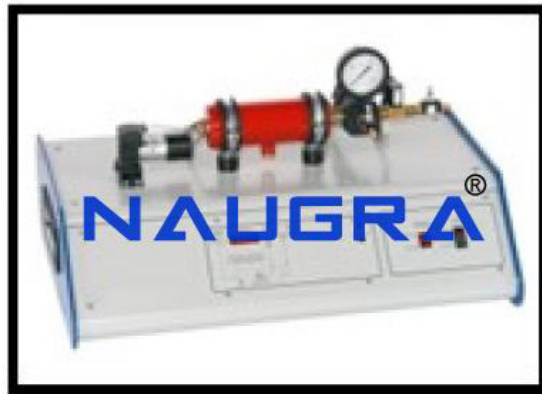


Product Name :
Training System Pressure Control HSI

Product Code :
AR915



Description :

Training System Pressure Control HSI

Technical Specification :

Training System: Pressure Control, HSI

This compact experimental unit offers every opportunity to learn the fundamentals of control engineering through experimentation on a pressure control system. The experimental setup is mounted on a housing which accommodates all the electronics. The pressure tank is charged with compressed air by a diaphragm gas pump. The advantage of the dial-gauge manometer is that the pressure in the tank can be observed directly at any time. The pressure is measured using a pressure sensor. The sensor output signal is sent to the software controller. The output signal from the controller influences the speed of the diaphragm gas pump and hence the flow rate. An air consumer is simulated by way of a flow control valve. A solenoid valve through which air can escape can be activated by the software to investigate the influence of disturbance variables.

Experimental unit for control engineering experiments

Pressure control in a tank

Speed controlled diaphragm gas pump

Electronic pressure sensor

Solenoid valve to generate disturbance variables

Software-based controlled system simulation

Process schematic on front panel

Networkable software

Software with control functions and data acquisition via USB under Windows 7, 8.1, 10 including PC1 Computer-System with 21" TFT-Monitor Win 10 engl.

Technical Data:

Diaphragm gas pump

Flow rate: 3L/min

Positive pressure: 1bar

Negative pressure: 250mbar abs.

Pressure tank

Capacity: 400ml

Operating pressure: 1bar

Pressure: 10bar

Pressure control range: 0...1bar

Solenoid valve: Kvs: 0,11m³/h

Pressure transducer: 0...1bar

Manometer: 0...1bar

Software controller configurable as P, PI, PID and switching controller

Software

Process schematic with controller type selection (manual, continuous controller, two- or three-point controller, programmer)

Time functions

Simulation function

Disturbance variable input

230V, 50Hz, 1 phase

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