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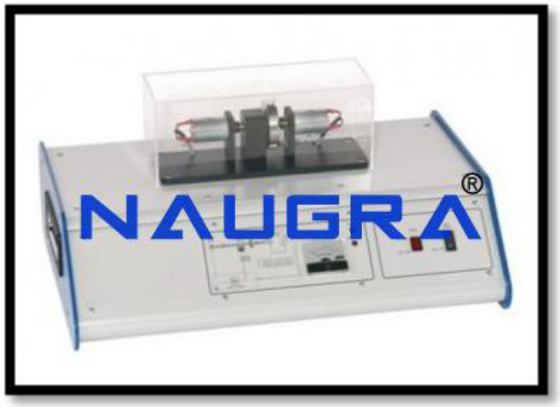
Product Name :	**Product Code :**
Training System Speed Control HSI	AR111



Description :

Training System Speed Control HSI

Technical Specification :

Training System: Speed Control, HIS
This compact experimental unit offers every opportunity to learn the fundamentals of control engineering through experimentation on a speed control system. The experimental setup is mounted on a housing which accommodates all the electronics. A transparent protective cover permits safe observation of the experiments. A DC motor drives a shaft with a mass flywheel. The dial gauge allows the speed to be read off directly at any time. The speed is measured inductively using a speed sensor. The output signal from the sensor is sent to the software controller. The output signal from the controller influences the motor current. A generator acting as a mechanical resistance to shaft rotation can be activated by the software to study the influence of disturbance variables.
Experimental unit for control engineering experiments
Speed control of a DC motor with shaft and flywheel
Transparent protective cover for motor/generator set
Inductive speed sensor
Generation of disturbance variables by adjustable generator load
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:
Motor
Speed: 4500min ^-1^
Motor power output: 10w
Torque: 1,7ncm
Generator
Speed: 4500min ^-1^
Power output: 10w
Torque: 1,7ncm
Tachometer (analogue): 0...6000min ^-1^
Software controller configurable as P, PI and PID controller
Software
Process schematic with controller type selection (manual, continuous controller, programmer)
Time functions
Simulation function
Disturbance variable input
230V, 50Hz, 1 phase

Naugralabequipments

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