

Product Name :
Training System Position Control HSI

Product Code :
AR165



Description :

Training System Position Control HSI

Technical Specification :

Training System: Position Control, HIS

This compact experimental unit offers every opportunity to learn the fundamentals of control engineering through experimentation on a linear position 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 carriage can be moved by a DC motor via a toothed belt. The linear positioning is measured by a rotary encoder and delivered as a voltage signal. The output signal from the sensor is sent to the software controller. The output signal from the controller influences the motor current. The motor is automatically shut down if the carriage reaches one of the two end positions.

Experimental unit for control engineering experiments

Linear position control of carriage with linear drive and gear motor

Rotary encoder as displacement sensor

Transparent protective cover

2 micro switches to shut down at end positions

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:

DC motor
Transmission ratio: $i=50$
Speed: 85rpm
Torque: 200nm
Travel: max. 300mm
Traverse rate: 45mm/s
Scale: 0...300mm
Software controller configurable as P, PI, PID
Software
Process schematic with controller type selection (manual, continuous controller, programmer)
Time functions
Simulation function
230V, 50Hz, 1 phase

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