Phone: +91-9896600003
Email : sales@naugralabequipments.com

Product Name :	**Product Code :**
Training System Temperature Control HSI	AR521

Description :

Training System Temperature Control HSI

Technical Specification :

Training System: Temperature Control, HIS
This compact experimental unit offers every opportunity to learn the fundamentals of control engineering through experimentation on a temperature control system. The experimental setup is mounted on a housing which accommodates all the electronics. A metal bar, which is thermally insulated with cladding, is heated or cooled at one end by a Peltier element. Three temperature transducers along the axis of the bar allow the variation in temperature along the length of the bar, and hence the associated thermal lags, to be obtained for differing operating conditions. A dial-gauge thermometer offers the advantage that the temperature can be read off directly at any time. The temperature is measured using a thermal resistor (PTC).
Experimental unit for control engineering experiments
Temperature control of a heated metal bar
Heating and cooling by peltier element
Temperature sensors at 3 different points along axis of bar to establish thermal lags
Software activated fan 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:

Heated bar: Depth x Length: 20x200mm, aluminium
Peltier element
Power consumption depending on temperature
Power at 300K: 38,2W
Power at 50Â°C: 44,3W
Operated by DC voltage
Fan
Power consumption: 2W
Flow rate: 40mÂ³/h
Temperature sensor: 0...100Â°C
Thermometer: 0...100Â°C
Temperature control range: 0...100Â°C
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.

Naugralabequipments

Website: www.naugralabequipments.com, **Email:** sales@naugralabequipments.com

Address: 6148/6, Guru Nanak Marg,Ambala Cantt,Haryana,India. **Phone:** +91-9896600003