Product Name :

Operation of Industrial Controllers

Product Code : AR854



Description :

Operation of Industrial Controllers

Technical Specification :

Operation of Industrial Controllers

This experimental unit familiarises students with the operation and function of a state-of-the-art industrial controller.

The controller has freely accessible inputs and outputs. Defined input levels and step signals can be produced with a signal generator. A digital voltmeter is used to measure the input and output signals. A simple first order lag is simulated to allow the response and stability of a closed control loop to be investigated.

All signals are accessible via lab jacks so a standard x/y plotter or line recorder can be used. It is also possible to control external controlled system models with this controller. As well as manual configuration and parameter setting with keys, the controller can be configured from a PC via USB.

Experimental unit for industrial controllers

Digital controller, configurable

Signal generator with potentiometer

Digital voltmeter

First order lag controlled system simulator

All variables accessible as analogue signals at lab jacks

Configuration software; software via USB under Windows 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 2 inputs, 1 output Voltmeter Measuring range: 0...20v Resolution: 10mv Reference variables generator 2 voltages selectable Output voltage: 0...10V Controlled system simulator Controlled system type: first order lag Time constant: 20s Controlled system gain: 1...10 Process variables as analogue signals: 0...10v Connection of external instruments (e.g. oscilloscope, line recorder) via lab jacks 230V, 50Hz, 1 phase.

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