Industrial Controllers Trainer

CECI

Technical Teaching Equipment

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Products
Products range
Units
6.- Systems & Automatics
&
10.-Process Control

DESCRIPTION

Trainer for industrial process controllers.

This trainer allows students the study and familiarisation with the function and operation of a industrial process controller.

The "CECI" Trainer consists of:

-Digital controller with freely selectable parameters. It has accessible inputs and outputs. As well as manual configuration and parameter setting with keys, the controller can be configured from a computer (PC) over an RS232 interface.

-Digital voltmeter for the measurement of the input and output signals.

-A signal generator allows to produce defined input levels and step signals.

-Controlled system simulator. A first order lag is simulated to allow the response and stability of a closed control loop to be studied.

All signals are accessible via lab jacks, so instruments or apparatus can be used (for example a plotter, line recorder, ect).

Possibility of control external system models with this contoller.

ISO:9001-2000 Certificate of Approval. Reg. No. E204034

European Union Certificate

Certificates ISO 14001: 2004 and **ECO-Management and Audit Scheme**
(environmental management)

Worlddidac Quality Charter Certificate
Worlddidac Member

SPECIFICATIONS

Trainer for industrial process controllers.

Steel box.

Configurable digital controller:

2 inputs, 1 output. Configurable as P, PI or PID controller. Proportional gain X_p: 0 -999.9%. Integral action time T_n: 0-3600s. Derivative time T_v: 0-1200s. RS232 interface for configuration on computer (PC).

Digital voltmeter: 0 -20V.

Signal generator with potentiometer. Reference variables generator: 2 voltages selectable. Output voltage: 0-10V.

Controlled system simulator:

Controlled system type: First order lag . Time constant: 20s. Process variables as analogue signals: 0-10V. System gain: 1...10.

All variables accessible as analog signals at lab jacks .

Possibility of connection of external instruments via lab jacks (for example:line recorder, plotter, oscilloscope...).

Configuration software CD.

Interface cable.

Set of lab cables.

Manuals:

This unit is **supplied with the following manuals: Required Services, Assembly and Installation, Starting-up, Safety, Maintenance & Practices Manuals.**

EXERCISES AND PRACTICAL POSSIBILITIES

Some Practical Possibilities of the Trainer

To study methods and terminology of process control:

1.-Closed loop control.

2.-Static and dynamic transfer function.

3.-To study the step response.

4.-Reference variable step.

To learn and to familiarise with a process controller:

5.-Configuration level.

6.-Parameter level.

7.-Operation control levels.

Control parameters:

8.-Setting input channels.

9.-Setting output channels.

10.-To use computer (PC) - based configuration tools.

11.-Scaling displays.

REQUIRED SERVICES

-Electrical supply: single-phase 220V. / 50Hz. or 110V. / 60 Hz.
-Computer (PC).

DIMENSIONS & WEIGHT

-Dimensions: 490mm x 330mm x 310mm. approx.

-Weight: 8Kg. approx.

✱ Specifications subject to change without previous notice, due to the convenience of improvements of the product.

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