Purpose

The Hampden **H-ICS** Trainers provide experience in setting up, tuning, operating, and troubleshooting actual instrument and control systems of the type used in the power and process industries. By simulating a process loop, provides instruction in the measuring and transducing of such physical variables as flow and level. Student trainees learn instrumentation and control techniques of standard equipment. Covered are open-loop control as well as the various types of closed-loop control: on/off, proportional, proportional plus integral, and proportional plus derivative, as well as a variety of final control devices, including electric, pneumatic and electronic.

Description

The Hampden Instrumentation and Process Control Trainer contains, in addition to the principal measuring and transducing device, an independent indication of the value of the physical variable being controlled. Microprocessor-based controllers provide maximum flexibility in setting control parameters, besides providing the computer interface for distributed control.

H-ICS-TT-TT

Temperature Process Control Trainer

The Temperature Process Control Trainer consists of the following components:

- Single System Microcontroller (PID) with communications port RS485
- Heater Control
- Power Supply, 24V DC
- Centrifugal Pump with motor
- Alarm Indicating Lights (2)
- Receptacle
- Control Panel and base
- Ground Fault Interrupter
- Control Valve, electronic
- Storage Tank, 2 gallon
- Pump circuit breaker
- Heater Assembly
- Temperature Transmitter

Options

PLC Control instead of PID Control
- Specify Model H-ICS-TT-TT-PLC

Computer Data Logging
- Specify Model H-ICS-TT-TT-CDL

MODEL H-ICS-TT-TT
Temperature Process Control Trainer

MODEL H-ICS-TT-TT-PLC
Temperature Process Control Trainer

All Hampden units are available for operation at any voltage or frequency

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