

Product Name :
Multifunction Process Control Teaching System

Product Code :
NLAB-TECHNICALAB33002

Description :

Multifunction Process Control Teaching System

Technical Specification :

A multi-function process control teaching system, capable of demonstrating level, flow, pressure and temperature control loops Desk-top mounted and includes a built in USB computer interface
Options include: reactor vessel with conductivity measurement, pH measurement, pneumatic control valve and electronic console

Includes the following process control demonstrations:

- Process principles
- Calibration of sensors (via PC software)
- Inflow control
- Outflow control
- Direct heating
- Indirect heating
- Batch and continuous operation
- Effect of sensor lag (e.g. thermometer pocket)
- Effect of system time constant (e.g. volume change)
- Effect of dead time (e.g. holding tube)
- Effect of mixing/stirring

Measured variables

- Level - on/off switch (fixed hysteresis)
- Level - differential on/off switch (adjustable hysteresis)
- Level - proportional pressure sensor (slow system response)
- Flow - Proportional turbine sensor
- Temperature - on/off switch (fixed hysteresis)
- Temperature - proportional thermocouple sensors
- Static pressure - proportional sensor (fast system response)
- Differential pressure - proportional pressure (fast system response)
- pH - proportional sensor.

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