

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
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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