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Product Name :
Multifunction Process Control Teaching System

Product Code :
ENGLABINGCAG820002



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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