

# PROCESS TRAINER

CE117

A self-contained, bench-mounted, fully integrated teaching apparatus that mimics industrial process engineering, including a comprehensive range of experiments in flow, level, pressure and temperature, ranging from basic theories through to more advanced principles.



- Includes four basic process control methods in one compact unit
- Supplied with TecQuipment's CE2000 software for supervisory control of the process with data acquisition
- Mimics common industrial parts and processes with realistic results
- Ideal for classroom demonstrations and student experiments
- Includes experiments from basic control to advanced control methods, including ratio control, cascade control, interactive control and feedforward control

## LEARNING OUTCOMES:

- Proportional, integral and derivative (PID) control
- Control of flow
- Control of level
- Control of pressure
- Control of temperature
- Ratio control
- Cascade control
- Multi-loop control
- Interacting control loops

Using water as the working fluid, the equipment allows safe, practical experiments on control of flow, liquid level, temperature and pressure. Students can study each of these separately or in combinations.

## ALTERNATIVE PRODUCTS:

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| • Thermal Control Process Apparatus (CE103)        | 68 |
| • Coupled Tanks Apparatus (CE105/CE105MV)          | 69 |
| • Pressure Process Training System (TE3300/02)     | 82 |
| • Flow Process Training System (TE3300/03)         | 83 |
| • Level Process Training System (TE3300/04)        | 84 |
| • Temperature Process Training System (TE3300/05)  | 85 |
| • Control and Instrumentation Study Station (TE37) | 87 |

