

# Control Training II

Learn the basics of control engineering interactively using simulated processes. Examine the time behavior of controlled systems, controllers and control loops step by step.

**Simulated processes/systems:**

- Flow rate control
- Engine speed control
- Room temperature control
- Level control
- Cooling chamber control with three-position controller

**Freely adjustable controller:**

P, I, PI, PID controller, three-position controller

**Examine:**

- Manual control
- Controlled system
- Controller behavior
- Control loop behavior
- Permanent control deviation
- Unstable control loop behavior
- Aperiodic settling of a control loop
- Behavior of setpoint and disturbance change
- Controlled system with and without compensation
- Optimize control loop

The storage of all signals enables the graphical evaluation of the time response of the controllers, systems and control loops.

This can also be used, for example, for calculating controller parameters and control loop optimization.

A comprehensive manual and exercises with solutions support individualized and activity-oriented learning.