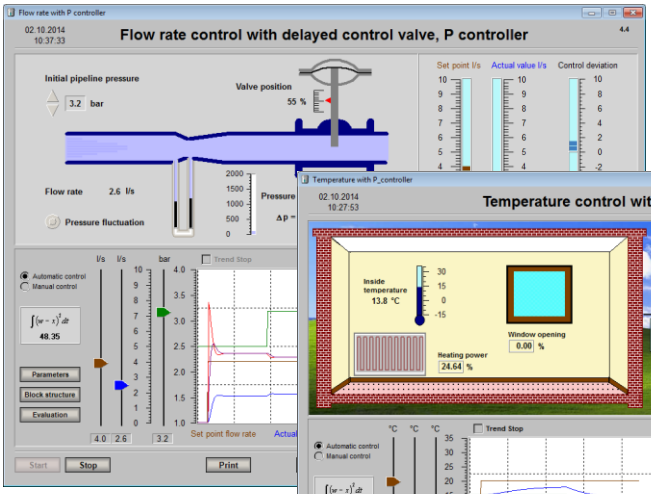
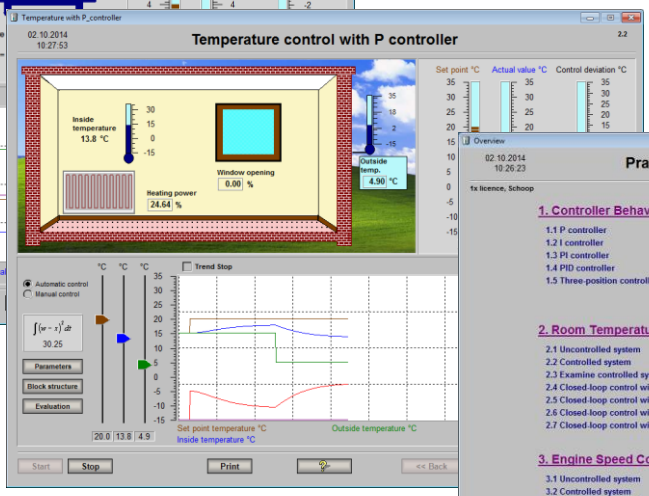
Practical Training on Control Engineering II

This program is a simulation application which can be used to practise and analyse the field of closed loop control engineering in vocational training.



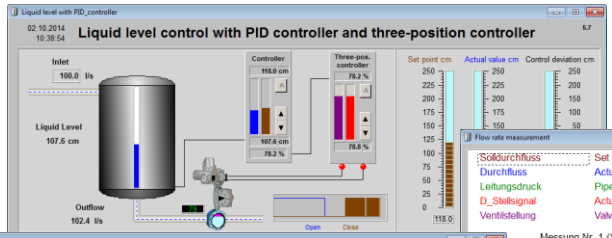
By various processes and controlled systems one can examine interactively the performance of controlled systems and control loops with different controllers:

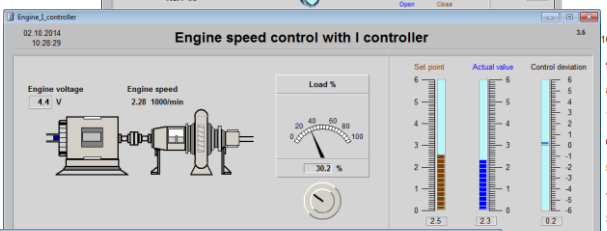
P, I, PI, PID, three-position controller

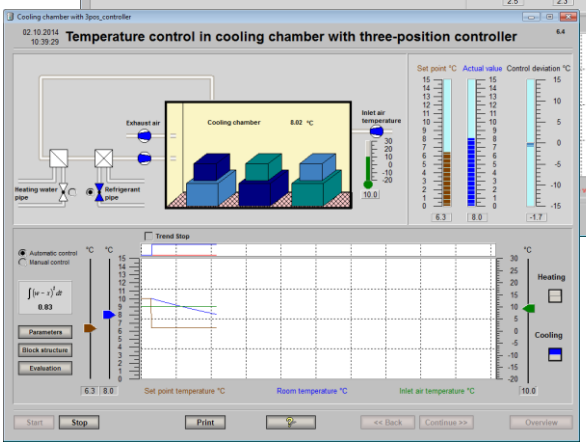


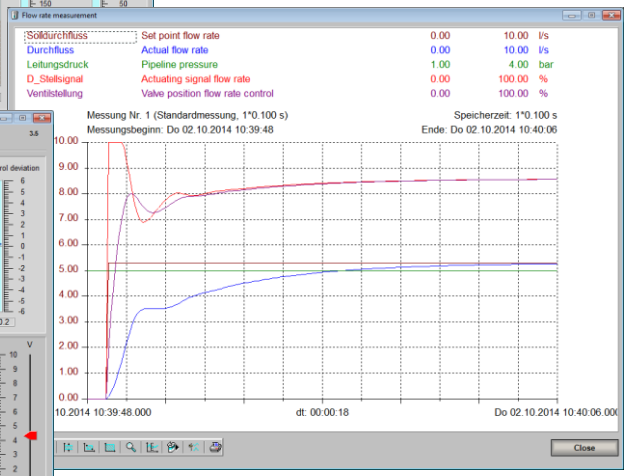
Simulated processes:

- Flow rate control
- Engine speed control
- Room temperature control
- Cooling chamber control with three-position controller
- Liquid level control with standard controller plus three-position controller









All signals are stored for a graphical analysis of the behaviour of the closed-loop control.

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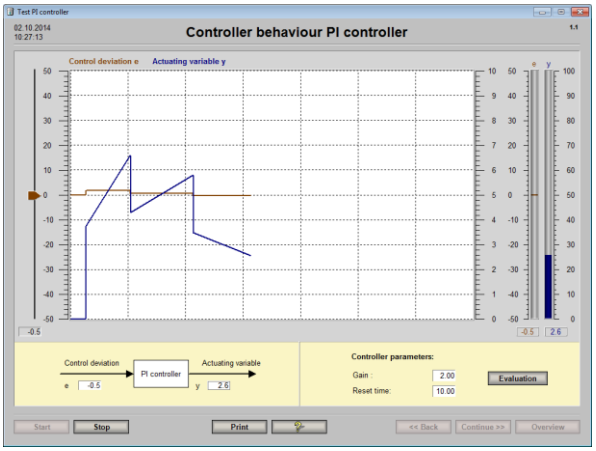
Didactical Structure

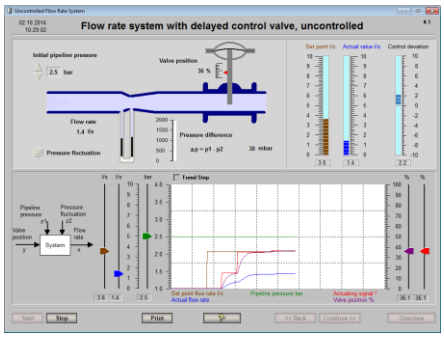
1. Examine controller behaviour



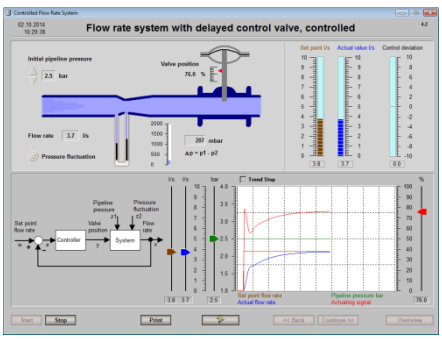
By editing the control deviation the actuating value is analysed with different controllers:

- P controller
- I controller
- PI controller
- PID controller
- Three-position controller

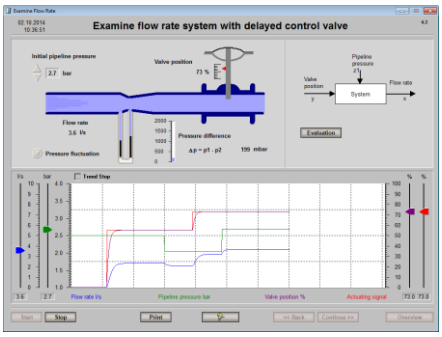
2. Examine different controlled systems



Manual control

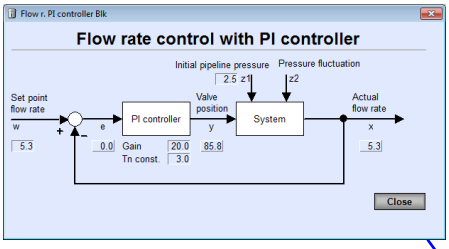


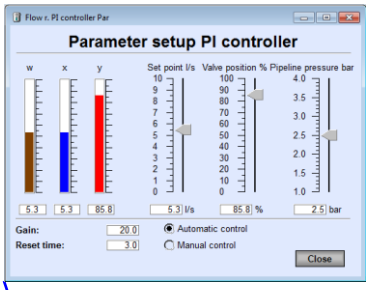
Automatic control



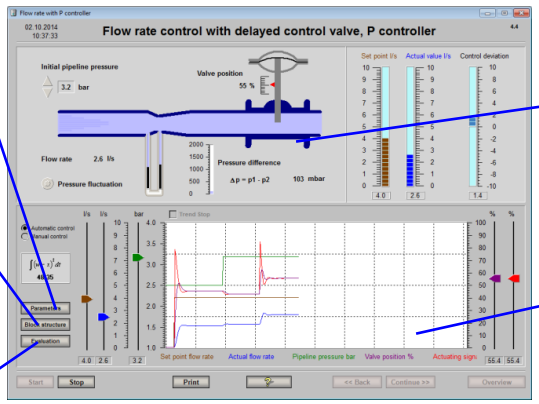
Control system behaviour

Block structure





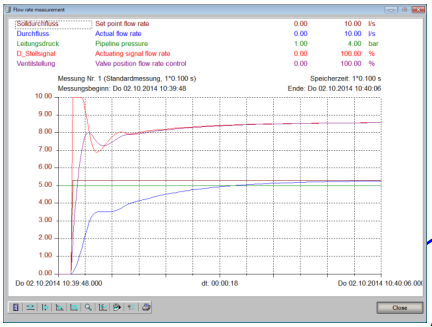
Controller parameters



Simulated process

Online-Values

Examine controller behaviour



Archiving/Storing

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