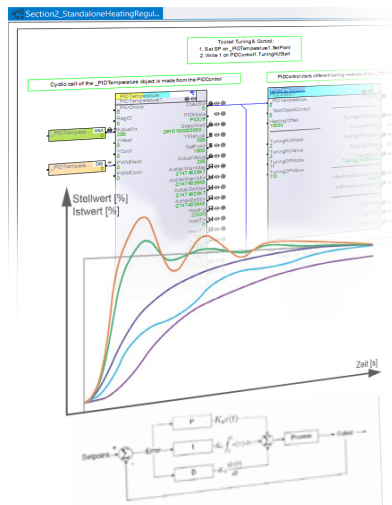




PIDRegulator

This library contains different variants for PID control. In addition to temperature control, the creation of a separate controller is also shown, as well as the use of several controllers in a group with setpoint control and an application option for cascaded control.

The controller allows you to choose from several control parameter setting variants in order to find the optimum parameters for the distance to be controlled. Online adaptation of the control parameters is integrated for this purpose. Example classes for evaluating alarms and warnings are included.



FEATURES

- PID controller with various operating modes (automatic, semi-automatic, manual)
- Interactive and ISA PID models are available
- Intelligent anti-wind-up and anti-starving mechanisms
- State space step response adjustment methods (Ziegler Nichols, Takahashi, Cohen Coon, Chien-Hrones-Reswick)
- Frequency analysis methods (Ziegler Nichols, Relay Feedback, Biased Relay Feedback)
- Group function with setpoint control
- Power adaptation with simultaneously activated heating and cooling control or energy-optimized
- Power adaptation with only one active actuator at a time (heating or cooling)

FACTS

Development environment	LASAL CLASS 2
Article number	02-010-190
Performance index	A > B > C > D > E