PID Controller

This block implements continuous- and discrete-time PID control algorithms and includes advanced features such as anti-windup, external reset, and signal tracking. You can tune the PID gains automatically using the 'Tune...' button (requires Simulink Control Design).

Controller: PID

Form: Parallel

Time domain:

- (•) Continuous-time
- ( ) Discrete-time

Main | PID Advanced | Data Types | State Attributes

Controller parameters

Source: internal

Compensator formula

Proportional (P): 0

Integral (I): 0

Derivative (D): 22.96

Filter coefficient (N): 220

$$P + I\frac{1}{s} + D\frac{N}{1 + N\frac{1}{s}}$$

Tune...

Initial conditions

Source: internal

Integrator: 0

Filter: 0

External reset: none

- [ ] Ignore reset when linearizing
- [x] Enable zero-crossing detection