Function Block Parameters: PID Controller

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

Proportional (P): 88

Integral (I): 4232

Derivative (D): 0

Filter coefficient (N): 100

Tune...

Compensator formula

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

Initial conditions

Source: internal

Integrator: 0

Filter: 0

External reset: none

[ ] Ignore reset when linearizing

[x] Enable zero-crossing detection

OK | Cancel | Help | Apply