

This block gradually changes a value (usually a setpoint or command) towards a target value, at a limited rate. This avoids abrupt jumps that could damage equipment or cause instability. If reset is activated output will be current value.

Inputs

TARGET – Desired final value.

CURRENT – Starting value or reference.

RAMP_UP – Maximum allowed increase per scan cycle.

RAMP_DOWN – Maximum allowed decrease per scan cycle.

ENABLE – Activates the function.

RESET – Resets internal state to CURRENT.

Outputs

OUT – The smoothed (ramped) output value.

REACHED – TRUE if OUT has reached TARGET.

Internal Variable

PrevOut – Stores the previous output for comparison.