Precision at the heart of your process

Eurotherm®

Expertise in systems and solutions, services and support

Eurotherm EPC3000 Programmable Controllers

Maintain high standards of production quality and help ease your cybersecurity worries

eurotherm.com/epc3000

Life Is On Schneider Electric

Help meet your process stability, accuracy and repeatability requirements with the EPC3000 range

Efficient, consistent production quality

The Eurotherm EPC3000 Programmable Controller delivers fast-acting precision control, helping to maximize yield at high quality. It has been designed for Industry 4.0 connectivity as a component of EcoStruxure™, Schneider Electric's IoT-enabled system architecture and platform.

Reduce equipment costs and increase efficiency

- Easy to install, commission and replace
- Clear, user friendly operation, with scrolling help text
- Diagnostic and performance metrics available online to help improve process throughput and help reduce downtime
- Robust design for reliability in demanding environments and highly regulated industrial processes

Improve quality, reduce scrap and increase profits

- Precise repeatable control improves quality, increases yield and minimizes waste
- Improve OEE (Overall Equipment Effectiveness) with real-time indicators for efficient monitoring of the process
- Low total cost of ownership

Adaptable, scalable and digitized

- Adapt easily to changing needs with flexible software
- Instant upgrades available online. Only pay for what you need now
- Industrial Internet of Things (IIoT) connectivity
- Versatile across a broad range of applications

World class certification

- Certified to Achilles® CRT Level 1 Cybersecurity
- Certified to international standards including CE, UL/cUL, CCC (exempt)
- Panel sealing to NEMA4X IP66
- Complies with control requirements of AMS2750E and CQI-9
- See datasheet for full list of certifications

> *"The performance of this controller is impressive and the certification for Ethernet robustness will help our cybersecurity strategy and give peace of mind for the future"*
>
> *System integrator, India*

React at the speed of change

- Simple intuitive operation
- Easy and quick to commission
- Fast to replace and repair
- Helps save time and money by reducing equipment costs and downtime

Helps improve product quality and lower production costs with precision control

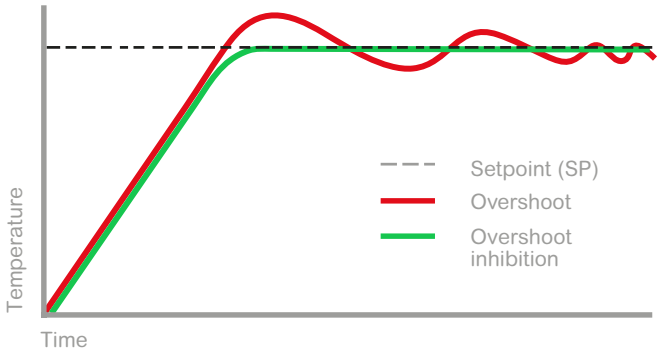
Precision control begins with the measurement circuitry. The EPC3000 measurement system has excellent thermal stability and outstanding noise rejection for this class of controller. High sampling rate, automatically adapting to input type, delivers rapid, precise, repeatable control performance.

Proven over many years of use, the Eurotherm PID algorithm used in the EPC3000 programmable controller delivers industry leading response time to setpoint change, or process disturbance.

The speed of response means time and energy is not wasted waiting for the operating temperature to be reached, while minimizing the overshoot and oscillations common in many PID implementations.

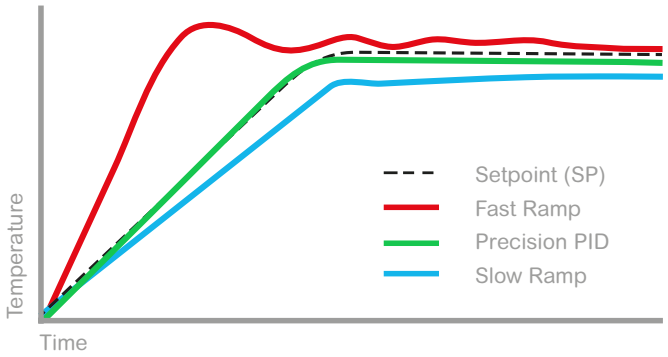
Repeatable control increases process yield and OEE while reducing scrap.

High precision measurements allow tight process tolerances to be met easily. With extended product life and three year warranty as standard, the Eurotherm EPC3000 controller will help deliver high quality production batch after batch, year after year.



Eurotherm overshoot cut back capability

By automatically reducing power demand near the setpoint the Eurotherm cut back feature significantly minimizes overshoot, which reduces waste and optimizes energy usage. This lowers the risk of parts not reaching operating temperature, or overheating.



Eurotherm over ramp suppression achieves optimum ramp rate without affecting quality

Ramp rate controls the rate of change to setpoint, keeping the material within specified temperature limits, minimizing damage and distortion in the final product. A holdback “Guaranteed Soak” function enables material to reach the required temperature before the process advances.

> *“This solution has simplified our process, and operation is so easy - the display presents only the parameters the operator wants to see. All the other parameters are locked away under password protection”*
>
> *Leading aerospace manufacturer Quality Manager*

The EPC3000 range allows you to optimize a wide spectrum of industrial processes

Semiconductors | Composites | Automotive Aerospace | Advanced materials processing Laboratories | Food & Beverage | Glass Steam applications | Plastics

Industrial furnaces • Autoclaves • Crystal growing
Atmosphere control • Composite materials processing
Heat exchangers • Climatic chambers • Annealers • Dryers • Ovens
Pasteurizers • Sterilizers • Incubators • Boilers • Extruders
Blow molders • Injection molders • Trace heating • Bushing control
Disinfection processes • Batch processing
Melt pressure control • Industrial distillation

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