

# Turbomachinery solutions for compressor control

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## Boosting performance and safety

As a plant's most critical capital investment, turbomachinery advances both performance and safety. Any unplanned downtime incurs significant cost in lost production, so investing in turbomachinery controls (TMC) is wise. Schneider Electric is your one-stop shop: we offer a comprehensive suite of solutions and services that can be tailored to every plant configuration or installation.

Over the past four decades, we have served a range of clients, from small- to large-scale operations. Our global experts deliver the industry-leading Triconex™ critical control platforms, along with general purpose redundant and simplex Modicon™ platforms. With over 5,000 customers worldwide, we prioritize sustainable performance over the full life of critical TMC assets.



Schneider has been a leader in compressor controls for decades. We provide expertise and services to upgrade and integrate machinery, systems, and controls.

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## Compressor solutions

To boost compressor productivity, safety, and life cycle, we provide comprehensive controls. We can tailor the following solutions to suit a variety of plant configurations and installations:

- **Steam turbine, gas turbine, and motor drivers** — Our integrated sequences and controls are designed to match original equipment manufacturer requirements, and to optimize compressor operation and machinery protection.
- **Anti-surge control** — To protect compressors from entering a surge condition, we can integrate our algorithms with adjacent process automation strategies, thereby boosting compressor performance and anti-surge mechanisms.
- **Universal surge curve** — For maximum efficiency and adaptability, we have calculated a universal surge curve that can fit any compressor control scenario. This includes setpoint hover for extra protection.
- **Compressor performance control** — To meet process demands while maintaining compressor and driver operational limits, we provide compressor loading control. Drivers include steam turbines, gas turbines, and motors.
- **Control platforms** — In conjunction with application libraries and proven templates for sequencing, we use triple modular redundant Triconex platforms for critical applications, and Modicon redundant/simplex platforms for general purpose applications.

## Integrated controls

We specialize in integration, which solves the hassle of managing multiple black boxes by enabling TMC elements to communicate with each other and with adjacent processes. Integrating TMC systems simplifies day-to-day operation and significantly increases efficiency.



We look forward to collaborating with you to bring your vision into reality.

Please visit us online for more information: [schneider-electric.com/processautomation](https://schneider-electric.com/processautomation)

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