

INCREASE SAFETY, RELIABILITY, AND PROFITABILITY FOR OPTIMAL CONTROL

With Emerson's Performance Services



Emerson covers the full range of modern control system technology including basic and advanced control, procedure automation, alarm management, advanced operator displays, control room design and staffing, and process simulation.

Performance experts can help deliver operational and project certainty with improved run time, startups, and shutdowns and increased quality and throughput.

See improvements throughout your facility, whether in the chemical, petrochemical, life sciences, metals and mining, refining, pulp and paper, or oil and gas industry.

CONTROL PERFORMANCE

Determining the process variables associated with product quality and throughput are key to process performance. Emerson's Control Performance solutions can help optimize the performance of the control loops in the process, which will lead to improving your facility's profitability, product quality, throughput, and yield and higher process availability.

OPERATOR PERFORMANCE

Operator Performance is used to describe the human interaction with your process. One of the most important roles in the operation is the operator running the control system. Emerson's holistic approach offers a complete suite of services and products to improve and optimize Operator Performance at your facility and achieve regulatory compliance.

SIMULATION

Dynamic simulation with Mimic Simulation Software provides accurate and real-time simulation of plant behaviors. Made for users with process automation experience, not simulation experts, Mimic automatically integrates with DeltaV or other offline control systems. Use the exact same operator graphics and controls to test configurations and train new or inexperienced operators.



Control Performance

Advanced Process Control (APC)

Identifies variables that are key to process performance and drives them to their desired values.

AspenTech DMC3 Software Interface

Standardized interface modules provide the necessary logic for a successful Aspen DMC3 implementation with DeltaV.

Assessments

Troubleshoot an existing, poorly performing process, or evaluate the suitability of enhanced process control strategies, such as APC.

Compressor Control

Maintains, sustains, and enhances the performance of your compressors.

DeltaV Loop Service

Interprets control loop data and provides actionable recommendations to help maintain and improve your Control Performance.

Loop Tuning

Using the EnTech™ Toolkit for advanced loop analysis and tuning.

Model Predictive Control

Obtain greater throughput, reduced variability, and increased safety on complex unit operations.

Regulatory Control

Development or modification of existing control strategies to include more advanced regulatory schemes such as Feed Forward Control.

SmartProcess® Optimization Software

Turnkey, off-the-shelf advanced control and monitoring applications to optimize your process.

State Based Control

Reduce unplanned events and operator error using autonomous operations for a safer, faster startup.

Operator Performance

Advanced Operator Displays

Design and development of the operator interface for your control system.

AgileOps™ Alarm Management Software

Emerson's complete alarm management solution that provides consistency and reliability to the control system by keeping it optimally configured for the process state.

Alarm Rationalization

Review and design of every point in the alarm system. Dynamic alarming design that modifies alarm configuration based on plant operating state.

Assessments

Compare site metrics to current industry standards and best practices and actual performance vs desired performance.

Control Room Design

Ensure that the control room users are provided with an environment that allows them to work at a high level of efficiency, in comfort.

Industry Standards Workshop and Philosophy Development

Produce cohesive philosophy documents and standards that apply specifically to your site.

Operator Staffing

Ensure that you have the right number of operators and an efficient operations team to consistently perform their assigned duties.

Process Simulation

Mimic™ Simulation Software

Provides real-time, dynamic process and IO simulation built to deliver business results of the Digital Twin to process industries.

Automation Development & Testing Systems

Enhance control system testing in an offline environment to reduce time and cost during capital projects and change management.

AspenTech HYSYS Link

Provides HYSYS Dynamics case management and integration with Mimic for IO integration, training, and testing.

Mimic Field 3D

Leverage existing CAD models to create an immersive and interactive environment for smart design reviews, operator training, or live data visualization.

Multi-Purpose Dynamic Simulation

Use simulation to provide benefits across the lifecycle of a facility from design to commissioning and startup to operation.

Operator Training Systems

Improve operator efficiency and decision making with realistic, hands-on training.

Simulator Maintenance Services

Ensure longevity and peak performance of your simulation system, without requiring in-house expertise.

©2021, Emerson. All rights reserved.

The Emerson logo is a trademark and service mark of Emerson Electric Co. All other marks are the property of their respective owners.

The contents of this publication are presented for informational purposes only, and while diligent efforts were made to ensure their accuracy, they are not to be construed as warranties or guarantees, express or implied, regarding the products or services described herein or their use or applicability. All sales are governed by our terms and conditions, which are available on request. We reserve the right to modify or improve the designs or specifications of our products at any time without notice.

Contact Us

 www.emerson.com/contactus

