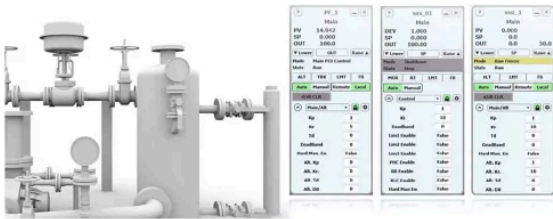


Performance Control

The CCC performance control app uses advanced control techniques and patented algorithms for efficient, accurate process control. It automatically switches between pre-programmed control objectives based on conditions for seamless operation.

Overview



Maintain precise and accurate control of key process variables for more reliable and efficient production with CCC performance control

Overview

Stable and accurate control of key process variables is critical to reliable and economical production. Performance control application regulates them by either modulating a final control element directly, or by cascading to another control application such as speed controller. Through sophisticated algorithms and coordination with other control loops, it can maximize control quality during stable process operation while minimizing the effects of process disturbance during transient scenarios.

What Is It

CCC performance control application uses sophisticated control techniques and patented algorithms to give efficient, accurate, and precise control of the process. The controller automatically and seamlessly switches between various pre-programmed control objectives based on conditions. Integration with the CCC antisurge controller can eliminate control oscillations and allow for operation with narrower margins. It can also be configured to coordinate parallel and series compressors. By utilizing the Pressure Override Control (POC) feature, the companion antisurge controller helps control the process variable for more responsive and precise process control. POC provides quick and stable recovery from process upsets as well as aiding in antisurge control.

How Does It Work?

The performance control application is fully configurable, it can control a wide range of process variables for all types of process applications. Some of the key features of the CCC Performance control application include:

- Fully automated loading and unloading sequencing
- Seamless transition between primary, alternate, and limiting loops
- Invariant coordinate system to handle varying molecular weight and changing process conditions
- Proven Parallel and Series load-sharing control
- Primary and alternate control loops
- Automatic output tracking for cascaded control
- Bump less transfer between Remote and Local set point modes
- Full integration with the CCC Antisurge controller
- Special applications for Power Recovery Trains
- Special applications for cryogenic expanders

What Problems Does It Solve?

- Improves Efficiency: By optimizing process parameters and operational conditions, performance control systems enhance overall efficiency and reduce waste.
- Improves Production: By providing more stable operations, process setpoint can be adjusted closer to limits for increased yield and throughput.
- Reduces Operational Costs: Improved efficiency and performance lead to cost savings by minimizing energy consumption and reducing the need for maintenance.
- Reduces Risks: Configurable automatic sequencing feature enables repeatable and error-free startup and shutdown of turbomachinery trains with the press of a button.



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