

## Bristol® ControlWave® PAC Redundancy

### Features

- Process Control and Communications Redundancy
- Dual CPU, Dual Power Supply Sequencers
- Automatic Failure Detection
- Automatic Switchover to Hot Standby Controller
- High Reliability
- No Single Point of Failure
- Communication Channel Switching
- Alarm and Historical Data Backup
- No programming required for redundancy data transfer
- Upgrade programs on the fly
- FTP Server
- Convenient Packaging

Redundant systems are offered for critical processes and harsh applications that require maximum operational readiness and system availability. Bristol® ControlWave® PAC Redundant Systems, from Emerson Process Management, are designed to prevent a single point of failure from shutting down the system. This design delivers a redundant system that provides high availability, reliability and safety.

CPU Hot Standby – In the event of a failure of the primary CPU, the system will automatically switch to the Hot Standby Backup CPU. All process control and communication functions are automatically switched to the backup. This method offers a high degree of control reliability and system availability at the most economical cost.



Data Backup – The standby CPU is automatically updated via Ethernet link to the on-line unit. In addition to real-time data backup, ControlWave also provides backup of all alarm events and the distributed historical database. These functions are all pre-configured, and no control programming is required to implement the redundancy functionality.

Controlwave Redundancy Systems include a stainless steel chassis that houses the primary and standby CPU's and Power Supply Modules. The chassis also house the ControlWave CPU and Communications Redundancy Switch Module. The Switch Module allows automatic and manual selection of the primary controller CPU in case of hardware failure, and will additionally switch up to four serial communication ports to the selected primary CPU of the pair.

ControlWave I/O Expansion Racks or Remote I/O Modules are used for the process interface.

## Product Overview

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