# PACSystems™ Safety Controller
The subtitle

## PACSystems™ Safety Controller

Our standalone PACSystems Safety controller is a crucial component of a cost-effective general safety solution, catering to a variety of markets, including Metro, Emergency Shutdown Systems (ESD), Fire & Gas, and Burner Management Systems (BMS). Our stand alone SIL2 Safety Controller is not just a component; it's a cornerstone in the foundation of your safety strategy. Trust in our proven technology to deliver performance, reliability, and ease of integration to your projects.

## High-Performance and Elegant SIL2 Safety Solution

RX3i CPS400 is Emerson's PACSystems safety controller. This is a high-performance compact controller with a large memory space to support mission critical applications. An optimal choice for SIL2 applications across diverse markets, this solution stands out for its high-performance capabilities and refined design. With a generous 2000 IO limit, our system offers the flexibility needed to accommodate a wide range of applications. Scalable architecture ensures adaptability to evolving project requirements.

Our CPS400 controller is IEC61508 safety certified, providing a robust foundation for safety-critical applications. Utilizing Black Channel over Ethernet Global Data (EGD) communication protocol ensures standardized, secure, and reliable communication. Our safety manual is designed to be user-friendly, offering clear guidance for quick and effective implementation.

The system is built with security in mind, providing a reliable foundation for your critical applications. Robust security measures ensure data integrity and protection against potential threats.

## Best-in-Class Redundancy

The controller boasts unparalleled redundancy, setting the standard for reliability in critical applications. Easy configuration within a unified toolchain alongside other PACSystems products ensures seamless integration. Built on a scalable, synchronized, hotstandby redundancy control platform, the PACSystems High Availability on RX3i CPS400 solution provides uninterrupted control of your applications and processes with total transparency.

## Rapid Application Development

Streamline your operations by configuring the entire skid with ease using Emerson controls on PAC Machine Edition. A user-friendly interface simplifies the configuration process for increased efficiency. Accelerate your project timeline with rapid application development using pre-configured templates. Benefit from a quick start with minimizes downtime and maximizes efficiency. Utilize safety-certified function blocks to program your safety system efficiently.

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## Specifications

### General
- Dimensions: 203.5mm x 56.7mm x 153.6mm (H x W x D)
- Operating System: VxWorks

### Mounting Format
- DIN Rail

### Communications
- Ethernet Global Data (EGD)
- Black Channel over EGD

### Redundancy Support
- EGD
- OPC UA Non-Transparent Server Redundancy

### Temperature Range
- Input Power (Max) – 20 Watts
- Input Voltage (min) – 18 Vdc
- Input Voltage (Max) – 30 Vdc
- Memory Backup Mechanism – Energy Pack: IC695ACC403SN

### Display
- OLED Display

### Program Security
- Secure Boot
- Trusted Platform Module (TPM)

### Environmental
- -40°C to 70°C (Operating)
- IEC/EN 31131-2: 2007 (sections 5 &6)
- IEC 60068

### Agency Approvals
- UL 61010
- CE
- CSA C22.2 NO. 61010-2-201
- UL Hazloc C1D2
- CCC GB/T 3836.1 & 3836.3
- RoHS
- UKCA

### Safety Agency Approvals
- IEC 61058

### Program Storage
- RAM – 64 Mbytes
- Non-Volatile Flash – 64 Mbytes
- Energy Pack Capacitors, Life Expectancy – 5 years

### Max IO per System
- 2000

## Ordering Information

| Description | Catalog Number | |
|---|---|---|
| Controller | IC695CPS400 | RX3i CPS400 Standalone Safety Controller |
| | IC695CPS400CA | RX3i CPS400 Standalone Safety Controller; Conformal Coated |
| Battery | IC695ACC403SN | Energy Pack for CPS400 Controller |
| | IC695ACC403SNCA | Energy Pack for CPS400 Controller; Conformal Coated |