

# CONTROL ENGINEERING

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## Automate complex procedures, optimize yield

Experion PKS R300 by Honeywell

Experion PKS R300 includes a redesign of Honeywell's automation-and-control platform hardware and new, embedded cyber-security technology.

The company says the product unifies assets, process, and people to improve business agility. This proven, open, yet secure technology is built to scale, and helps manage everything from optimized yield to reduced maintenance costs. Featuring an automated backup-and-restore capability, the system can automate complex procedures to improve user efficiency. It also introduces the Series-C, optionally redundant-process input-output (I/O device) family, which uses a new vertical design that reduces wiring and maintenance costs. The company says that representative results include: 30% reduction in maintenance costs; 1-3% increase in production and 1-2% decrease in costs due to asset effectiveness; 1-4% boost to production due to process optimization; up to 13% increase in production volume; 5% decrease in production costs



existing assets

across the entire solution; 40% reduction in operator-related incidents; 98% on-time and on-budget project completion; and up to 50% better return-on-investment over the facility lifecycle.

Vertical-packing concept extends to the controller and Fieldbus Interface Module, giving a smaller, higher-performance package.

<http://hpsweb.honeywell.com>

- Collaborative decision-support tools
- Compatible with prior Honeywell systems
- Integrated safety manager system
- Single facility-wide view
- Interfaces with FOUNDATION fieldbus, HART, Profibus, DeviceNet, LON, ControlNet, and Interbus to optimize

- Wireless allowing mobile computing capability.

## SOFTWARE



## Interactive process modeling

UniSim Design by Honeywell

UniSim Design simulation is a family of software and engineering services designed to improve performance throughout the life cycle of a processing plant. Honeywell says it helps oil-and-gas processors, petroleum refiners, power generators, and chemical manufacturers more easily capture and share process knowledge, improve plant profitability, reduce engineering costs, and maximize return-on-investment.

Building on the Hysys intellectual property acquired from Aspen Technology, UniSim Design is said to be an intuitive and interactive process-modeling offering that enables engineers to create steady-state and dynamic models for plant design, performance monitoring, troubleshooting operational improvement, business planning, and asset management. Users are empowered to interactively make decisions by getting immediate responses to assumptions using a high-speed engine with backward calculation capabilities. Package allows the design and test of new processes offline and training of employees prior to implementing a process.

<http://hpsweb.honeywell.com>



- Comprehensive thermodynamics foundation
- Integrated steady-state and dynamic modeling environment
- Pressure-flow dynamics
- Scalable approach to modeling and simulation

### For More Information

Learn how Honeywell's Experion PKS has been improving business performance for thousands of customers, visit [www.experionpks.com](http://www.experionpks.com).

### Automation & Control Solutions

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