

# Advanced Process Technology takes to the road

An 18-wheeler is not the first place you'd think to look for industrial technology but that's exactly where you'll find Honeywell's advanced technology on display. The Honeywell Express is a unique mobile demonstration unit traveling across North America to showcase some of the most advanced technology solutions available to the process industries. And its next stop... the Global Petroleum Show, June 13-15 in Calgary.

refining, chemicals, pulp and paper, and metals and mining industries.

Equipped with over 900 square feet of live displays, this 18-wheel tractor-trailer provides the opportunity to experience hands-on demonstrations of Honeywell's advanced technology offerings, including hardware and software, industrial security applications and migration solutions. The Honeywell Express showcases the most advanced solutions for the process industries, including:

- A unique automated backup and restore feature - protects PC system data to quickly restore after a PC failure.

## Tools to Improve Process Performance

Experion embeds a host of advanced control and optimization products that help maintain responsiveness to changing business demands while achieving optimal return. A comprehensive collection of software applications and services effectively manage process control and optimization strategies, everything from improving regulatory loop control to globally optimizing the entire process plant.

*Example:* A major Canadian refiner is using Experion to optimize process performance by improving process control. The company installed advanced control technology based on Honeywell's Profit Suite™ advanced control and optimization applications. The integration of Profit Suite with the Experion platform is allowing operators to improve product quality through better stabilization of process operations.

## Tools to Improve Operator Effectiveness

The Honeywell Express demonstrates operator effectiveness solutions providing personnel with the information needed to be most effective. Experion is the only automation system embedding advanced application technologies based on research by the Abnormal Situation Management (ASM®) Consortium.

By increasing overall awareness, decision-making abilities, and responsiveness, customers have experienced a 40 percent reduction in operator-related incidents.

With Honeywell solutions such as Alarm Configuration Manager, customers can improve operator response time, reduce operator errors, record events to help determine their root cause and protect physical security. Honeywell's Safety Manager solution helps lower the cost of safety and improves plant performance by reducing the risk of safety incidents, maximizing production uptime,

## Experion PKS

At the heart of the Honeywell Express is the Experion®-Process Knowledge System (PKS), which unites people, business operations, process control and assets, transforming field data into actionable knowledge. This next-generation system is built on a secure DCS architecture, providing integrated physical security, emergency shutdown and fail-safe controls. Experion is able to look at the bigger picture with the integration of process control and safety systems under one platform. With a visit to the Honeywell Express, you can see how Experion is helping customers improve their

business performance and peace of mind. You'll see Experion's latest release (R300) that includes:

- The Series C I/O - vertically designed and slanted to minimize the control room footprint and direct heat flow evenly through the cabinet, improving product lifecycle and reducing energy costs with easy access for wiring installation and maintenance.
- A new control firewall - protects the control level from unwanted Ethernet messages.



**The Honeywell Express is an 18-wheeler mobile demonstration unit, travelling across North America to showcase advanced process technology solutions. Next stop: Calgary's Global Petroleum Show.**

## Honeywell Technology in Action

Process manufacturers in western Canada face a multitude of challenges such as safety, process improvement and security issues. These days, with such heavy demands on labour resources and people's time, more Canadian companies are looking for suppliers that can solve a bigger problem. Using this mobile demonstration unit, Honeywell is showing how it can solve bigger problems for customers in the oil and gas, life sciences,



reducing the cost of compliance and providing productivity tools that help manage safety in your plant.

Honeywell's effective procedural operations services are designed to help minimize procedure problems that may occur during plant operations and reduce procedure execution time.

Additionally, you can view Honeywell's UniSim™ simulation solutions, which help to better design, operate and optimize the lifecycle of a plant. They enable engineers to develop and optimize operating procedures and control system configurations. They also form the foundation of a comprehensive training program to prepare operators for production scenarios before initial operations begin.

**Example:** A Canadian refinery wanted to reduce the number of alarms facing operators on a regular basis. The company turned to Honeywell for an alarm management solution that sought better ways to prioritize alarms so that operators wouldn't be flooded with multiple alarms all at once. The Honeywell solution greatly reducing the number of alarms occurring on average, letting operators better manage the alarms that really matter and not be distracted by alarms that are of lower priority.

### Tools to Improve Asset Effectiveness

The Honeywell Express shows how Experion breaks down barriers and proactively manages the health of all assets and monitors equipment in real time.

You can see Asset Manager, a comprehensive suite of advanced asset management applications that continuously and efficiently monitors, troubleshoots and maintains the Experion system's control loops and field device assets, as well as traditional process-based assets. Asset Manager delivers continuous information about processes and field-connected devices wherever and whenever it is needed in the operation, allowing plants to monitor and effectively manage valuable assets in real time.

Also included is IntelTrac® PKS, an integrated software and hardware solution for wireless field data collection and intelligent asset management. It is the first field data collection system that enables users to integrate field data with data from multiple sources,

including production, process control and work management systems.

As well, you can see best-in-class field instruments and an array of transmitters, including the award-winning XYR5000 wireless transmitter.

**Example:** A Canadian oil & gas company was looking for ways to collect field data in a more efficient and timely manner. The company installed Honeywell's IntelTrac PKS to increase the reliability of its assets through better management of operations information. This has resulted in an improvement to not only the efficiency of data collection, but also the accuracy and reliability of data

### Applications for Industrial Security

The Honeywell Express mobile demonstration unit also addresses industrial security—an ever-increasing concern to the process industries worldwide. Honeywell's security offering includes a full scope of applications for both physical and cyber security.

Visitors will learn how Honeywell's Enterprise Building Integrator (EBI) is fully integrated with the Experion system, providing a single operator interface for plant information, life safety management data, security details, HVAC controls and access control systems.

A critical part of ensuring people in the plant are safe is knowing where they are in the event of an incident. You can experience a demonstration around automated mustering where the system automatically tracks where everyone is located and when everyone is out of the plant, with up-to-the-minute information.

You'll be able to see cyber security solutions for data and infrastructure confidentiality, availability and integrity. Honeywell can design, implement, operate and maintain even the largest and most complex information assurance systems.

While touring the Honeywell Express, you can also see Honeywell's Digital Video Manager (DVM) - a scalable, Digital Closed-Circuit Television (CCTV) surveillance solution designed for video surveillance security and enterprise operations.

**One of the technologies on display in the Honeywell Express is the company's UniSim™ Simulation Solutions, which help to optimize a plant's lifecycle.**

**Example:** A major oil & gas provider in Canada was looking for a holistic solution to improve not only process automation but also building controls. The company called on Honeywell to provide innovative process automation solutions, advanced building automation, fire alarm and security solutions and support services.

### Migration Solutions

The Honeywell Express also demonstrates safe and simple migration solutions, from upgrading your current Honeywell system to migrating from another supplier's system. You can learn how to migrate at your own pace.

As a world leader in industrial automation and control solutions, Honeywell solutions are helping customers get the most out of their assets, optimize performance and keep their plant, data and employees safe.

**Example:** A major oil & gas company was looking to update its aging non-Honeywell control system and improve process operations. The company chose to migrate the control system to Honeywell's Experion system. The result has been a significant improvement to process operations with increases in product quality and throughput, and a reduction in maintenance costs.

### Next Stop - Global Petroleum Show

You can visit the Honeywell Express at the Global Petroleum Show in Calgary June 13-15, in booth number 3341.

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For more information about the Honeywell Express, visit [www.honeywell.com/ps](http://www.honeywell.com/ps) and click on News and Events.