

Product Information Note

Enhanced High Performance Process Manager (EHPM)



Honeywell's Enhanced High Performance Process Manager (EHPM) advances the industry's most widely implemented process controller. EHPM extends the lifespan of automation assets and protects intellectual property, enabling users of legacy TDC/TPS systems to modernize to the Experion® Process Knowledge System (PKS).

Today's competitive global marketplace demands automation solutions that increase plant efficiency and profitability. Process control performance can have a significant impact on the bottom line. With modern control technology, plants can increase operational effectiveness, lower costs and improve regulatory compliance while responding to demands for better product quality and faster delivery.

Commitment to continuous evolution

For more than three decades, Honeywell has stood behind customer investments in its plant automation technology. Our commitment to continuous technology evolution enables industrial operations to modernize their legacy control assets, step-by-step, to a new, modern automation system while at the same time retaining capital investments and protecting valuable intellectual property.

Honeywell's modernization roadmap incorporates full flexibility in lifecycle planning, including long-term support of existing equipment for life expectancy extensions and upgrades for plant performance improvements.

Innovation focused on extending system life

Honeywell's new Enhanced High Performance Process Manager (EHPM) allows modernization of TDC/TotalPlant™ Solution (TPS) controllers to integrate within the Experion® Process Knowledge System (PKS) control infrastructure. This solution advances the industry's most widely implemented process controller — the High Performance Process Manager (HPM) — and continues the evolution of the highly successful Process Manager (PM) and Advanced Process Manager (APM).

EHPM was specifically designed to enable dual citizenship on Experion PKS and legacy TotalPlant™ Solution systems. A single system can have a common Human-Machine Interface (HMI) and unified physical control network, allowing legacy systems to easily integrate / expand within Experion PKS while maintaining the available intellectual property.



Figure 1. Honeywell has advanced its industry-leading High Performance Process Manager (HPM).

This easy expansion enables Honeywell customers to reduce risks and decrease downtime during modernization, ensuring crucial system life extensions. It also helps avoid rip and replace upgrades, which can be more expensive and less secure than phased modernization techniques.

New generation process controller

EHPM redefines the state-of-the-art process controller. It provides powerful and effective control on the TPS Process Network (TPN) and is the first process-connected device on Honeywell's Fault Tolerant Ethernet (FTE)-based Enhanced Universal Control Network (EUCN). This solution makes use of

Honeywell's Enhanced Network Interface Module (ENIM) to connect to the Local Control Network (LCN).

The EHPM supports all classical process control functions for continuous, discrete and batch operations, provided by the TDC/TPS controllers.

Identical to HPM, the EHPM offers:

- Robust data acquisition and control functions, including regulatory, logic, and sequential control..
- Bi-directional communications to Modbus and Allen-Bradley compatible subsystems through a serial interface.
- Full interoperability with existing Global User Station (GUS), Universal Station (US) and Experion Station TPS (ES-T).
- Support for higher-level control strategies available on the TPN through the Application Module (AM), Application Processing Platform (APP) and host computers.
- Use of the Process Manager I/O hardware and field protocols.

In addition, EHPM is designed for longevity support of the modern FTE network and direct peer-to-peer exchange with other devices connected to it. As such, it provides seamless and cost-effective modernization of existing PM / APM / HPM controllers.

Seamless path to the latest technology

The EHPM provides a means to evolve to the latest control technology as part of a multi-phase evolution vision. It integrates the control environment of Honeywell's TDC/TPS–Experion PKS systems within a single unified physical network for safety and

For More Information

Learn more about how Honeywell's EHPM solution can help you easily and cost effectively integrate with Experion PKS, visit our website www.honeywellprocess.com or contact your Honeywell account manager.

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control devices.

With Honeywell's migration approach, control-level integration is supported on a single FTE network. Controllers can be connected to a common network supporting both the Universal Control Network (UCN) protocol for the TPS control network, and the Control Data Access (CDA) protocol for the Experion control network. Devices connected to the Ethernet network can use one or both protocols.

For Honeywell users, the unified control environment provides a logical path for migration of legacy Data Hiway and UCN installations to Experion PKS at minimal investment cost, process disruption and changes to intellectual property.

Benefits to Honeywell customers

By implementing the EHPM, Honeywell customers can:

- Effectively expand plant process control while re-applying the available intellectual property in HPM controllers.
- Modernize mature controllers and expand the remaining life of their automation assets by 30-50%.
- Reduce maintenance efforts while utilizing the advanced diagnostic features of the FTE control network.
- Improve the efficiency of control provided by direct peer-to-peer communication between EHPM, Safety Manager (SM) and Experion PKS C300 controllers.

Expert support around the world

Honeywell is committed to lifecycle support and helping customers meet their business needs for automation planning. Our high-value service and support capabilities have more global reach and presence than any other supplier.

With Honeywell's approach, linearity of capital investments, together with efficiency improvements is fully supportable using an incremental modernization and upgrade approach.

Currently, more than 8,000 Honeywell technicians use collective expertise to work for customers in 67 countries. Our support teams are driven to the highest standards to meet customer product requirements for ease of use and maintenance.

Honeywell also provides world-class customer support via our Global Technical Assistance Center (TAC).

The Honeywell logo is displayed in a bold, red, sans-serif font.