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Honeywell

Service Note

High Performance Process Manager (HPM)



Achieve Five Times the Point Processing Capability and More User Memory with an Upgrade to Honeywell's High Performance Process Manager

Are maintenance and repair issues on Process Manager (PM) or Advanced Process Manager (APM) impacting your operations? Would better diagnostics, increased reliability and a smaller equipment footprint prove beneficial for your environment?

Benefits of the HPM Upgrade

HPM is an evolution of Honeywell's Process Manager (PM) and Advanced Process Manager (APM). The HPM offers several benefits over its predecessors, including:

- **Current Product.** HPM controller cards are a current product from Honeywell, with no announced withdrawal from sale, meaning many years of support still ahead. The controller cards are produced new and will be readily available for field replaceable spare parts needs for several years—unlike the PM/APM controller cards, which require contract support or purchase through Certified Recycled Parts.
- **Higher processing capability.** The HPM provides 800 process units, which is five times the number supported by PM or APM.
- **All the IOPs and field wiring may remain in place.** IOPs will continue to perform as they do in PM/APM system configurations. The primary reason to replace or upgrade firmware on an IOP would be to gain functionality from post-shipment enhancements.
- **Checkpoint translation provides simple, secure off-line migration.** Flexible point mix change capability allows migration without disrupting the control database.
- **PV scanning on analog input boards.** Reduces the load on the I/O link, allowing bandwidth optimization.
- **Better cable and I/O link diagnostics.** Reduces the time and effort in troubleshooting.

Capabilities

The HPM can be configured to meet data acquisition needs and advanced control requirements in a highly secure and performance-intensive manner. The HPM is a fully integrated member of Honeywell's TotalPlant® Solutions (TPS) family, with peer-to-peer communication capabilities with other Universal Control Network resident devices. Procedures and displays are similar or identical to those of other TPS controllers, as well as to PM and APM point displays. HPM supports higher level control strategies available on the TotalPlant Network (TPN) through the application module and host computers.

Compatibility with industry standard communication protocols, such as Modbus and Allen-Bradley, are accommodated using bi-directional communication through a serial interface.



Power System Considerations

Kits are available for all standard single and redundant HPM controller configurations. All existing 20A PM/APM power systems can be used with HPM systems.

When powered down, HPM memory consumes more backup current than PM or APM. Hence, memory backup time of 50 hours on the PM/APM is reduced to 10 hours on the HPM when using the original power systems. Those systems are identifiable by the models MU-PSxx02 or MU-PSxx03, which use a NiCad battery for the CMOS battery backup (size AA).

The current generation of power systems is designated under model Mx-PSxx04. These systems use a size C NiCad battery for CMOS battery backup and have four additional DC power connections on the power system mothercard. These units provide the full 50 hours of battery backup on an HPM system.

Kits are available to upgrade the power supply backplane and CMOS charger assemblies for customers running the MU-PSxx03 power system assemblies who require the 50 hour memory backup time.

This controller upgrade requires shutting down and performing the upgrade off-line. The HPM upgrade requires TPN R500 or higher software.

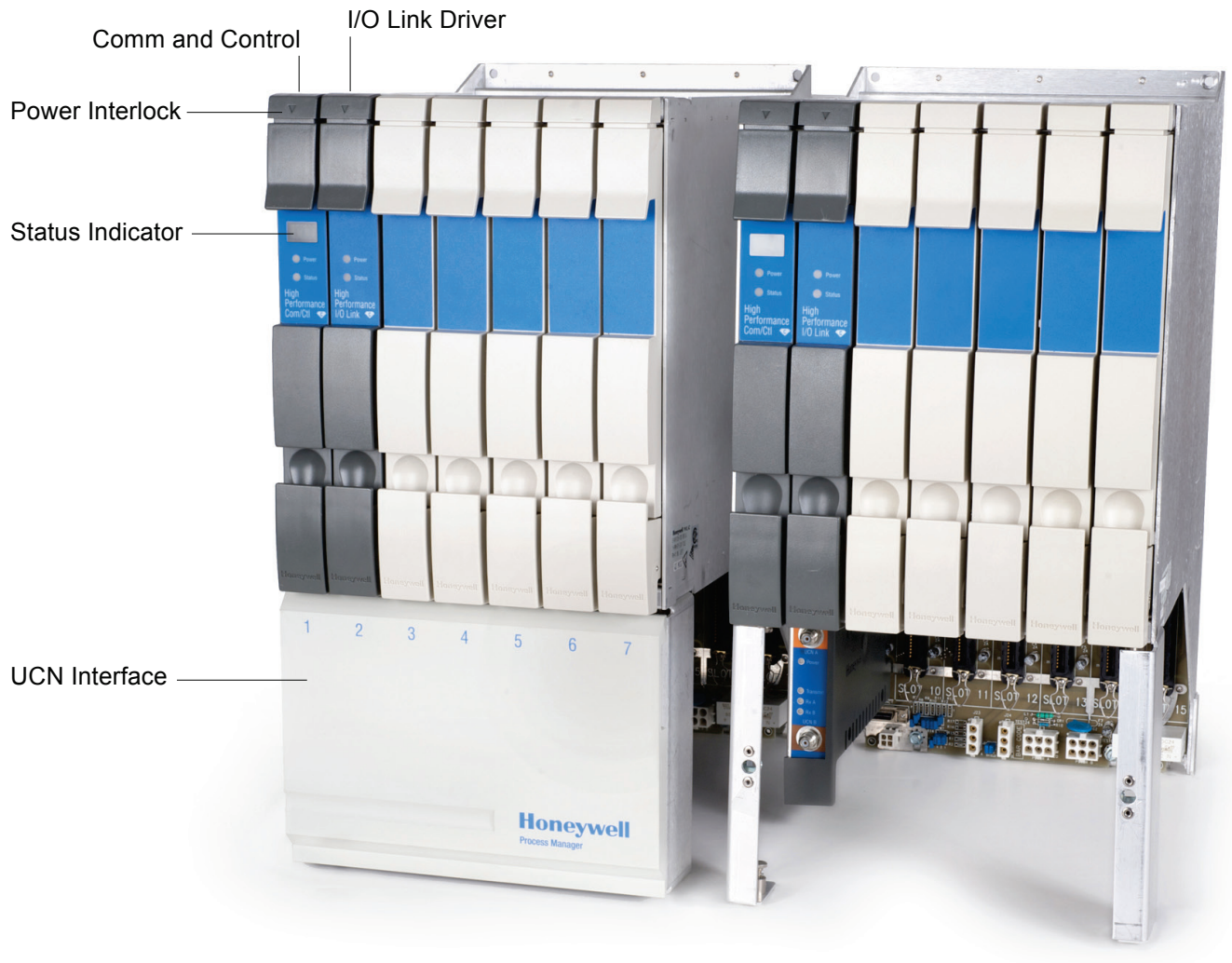
Kit Hardware Supplied

The specifics of each kit differ based on the upgrade kit selected for the configuration needs. Upgrade kits provide all hardware and documentation needed to upgrade most standard configurations. All kits provide a high performance communication/control card, high performance I/O link card and an HPM UCN interface module. Redundant configurations include two of each. The kits also include power cables, interface cables and redundancy cables where needed.

Summary

Whether you are considering upgrading to the HPM as part of a growth initiative or streamlining your maintenance process, the HPM Upgrade offers capabilities that can provide significant benefit to your operations. Contact your Honeywell representative to discuss your situation.

See Kit Model Numbers and Descriptions on the next page.



Model	Description of Kit
MC-ZHMR01	Non-redundant HPM (15-slot file) to Redundant HPM Upgrade
MC-ZHMR02	Non-redundant HPM (7-slot file) to Redundant HPM Upgrade
MC-ZHPS01	Non-redundant PM/APM to Non-redundant HPM Upgrade
MC-ZHPR01	Redundant PM/APM to Redundant HPM Upgrade in 15-slot (file to file) files configuration
MC-ZHPR02	Redundant PM/APM to Redundant HPM Upgrade in 7-slot (side by side) files configuration
MC-ZHPR03	Non-redundant PM/APM to Redundant HPM Upgrade kit in 7-slot (side by side) files configuration
MC-ZHMR11	CE-Mark Non-redundant HPM (15-slot file) to Redundant HPM Upgrade
MC-ZHMR12	CE-Mark Non-redundant HPM (7-slot file) to Redundant HPM Upgrade
MC-ZHPS11	CE-Mark Non-redundant PM/APM to Non-redundant HPM Upgrade
MC-ZHPR11	CE-Mark Redundant PM/APM to Redundant HPM Upgrade in 15-slot (file to file) files configuration
MC-ZHPR12	CE-Mark Redundant PM/APM to Redundant HPM Upgrade in 7-slot (side by side) files configuration
MC-ZHPR13	Non-redundant PM/APM to Redundant HPM Kit in 7-slot (side by side) files configuration
MC-ZPSR04	HPM Power System Backplane Upgrade (conformally coated)
MC-ZPSUG2	xPM Power System Maintenance Upgrade

SESP pricing available. All displaced material must be removed from site once the upgrade is completed.
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For More Information
Learn more about how Honeywell's High Performance Manager upgrades and other ways to evolve your system, visit our website www.honeywellprocess.com or contact your Honeywell account manager.

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