

MC-PRHM01

Remote Hardened Multiplexer I/O Processor

Honeywell MC-PRHM01 is a coated 32-point Remote Hardened Multiplexer I/O processor. It brings multiplexed remote field information into a TPS Process Manager I/O system.

PRODUCT SNAPSHOT

BRAND

Honeywell

FAMILY

TPS Process Manager I/O

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PRODUCT OVERVIEW

Honeywell MC-PRHM01 is a coated 32-point Remote Hardened Multiplexer I/O processor. It brings multiplexed remote field information into a TPS Process Manager I/O system.

1

Processes remote multiplexer point data

2

Interfaces hardened remote field hardware

3

Transfers multiplexed data over the I/O link

4

Uses a coated processor board

SYSTEM COMPONENTS

Remote hardened multiplexer

PM/APM/HPM/EHPM cardfile

I/O link

Remote field cable

TECHNICAL DATA

PARAMETER	VALUE
Processor points	32
Processor type	Remote hardened multiplexer

PARAMETER	VALUE
Board coating	Conformal

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TECHNICAL NOTE

Verify the multiplexer address, remote cable path and I/O link assignment before commissioning point data and diagnostics.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Remote process measurements

Processes remote multiplexer point data

Harsh-area signal collection

Interfaces hardened remote field hardware

Long-distance I/O concentration

Transfers multiplexed data over the I/O link

Legacy RHM maintenance

Uses a coated processor board

PRODUCT PRECAUTIONS

- 1 Verify the complete MC-PRHM01 marking and the assigned TPS Process Manager I/O position before field work.
- 2 Isolate the applicable power, network and field energy before disconnecting MC-PRHM01.
- 3 Use ESD controls and protect the keyed connectors of MC-PRHM01 during handling.
- 4 Record the installed wiring, jumpers, node or channel assignment before replacement.
- 5 Confirm Remote hardened multiplexer and PM/APM/HPM/EHPM cardfile against the approved system configuration.
- 6 Restore MC-PRHM01 under controlled conditions and review the product-specific diagnostics.
- 7 Complete a functional test for remote process measurements before production release.

ENGINEER FAQ

Q1 Which Remote hardened multiplexer identity must be verified before fitting the MC-PRHM01 Remote Hardened Multiplexer I/O Processor?

Match the complete MC-PRHM01 marking, assigned TPS Process Manager I/O position and installed Remote hardened multiplexer before work.

Q2 How should PM/APM/HPM/EHPM cardfile be isolated before disconnecting the MC-PRHM01 Remote Hardened Multiplexer I/O Processor?

Place the affected process in its approved maintenance state, isolate applicable energy and prove PM/APM/HPM/EHPM cardfile safe before disconnection.

Q3 What as-found wiring record is required for the MC-PRHM01 Remote Hardened Multiplexer I/O Processor in Remote process measurements?

Record terminal identity, polarity, shields, jumpers, cable tags and the as-found diagnostic state for MC-PRHM01.

Q4 Which TPS Process Manager I/O configuration must be checked when commissioning the MC-PRHM01 Remote Hardened Multiplexer I/O Processor?

Verify the assigned channel, slot, node or interface and compare it with the approved TPS Process Manager I/O configuration before enabling MC-PRHM01.

Q5 How can the MC-PRHM01 Remote Hardened Multiplexer I/O Processor be function-tested for Harsh-area signal collection without disturbing the process?

Use a controlled stimulus or limited command, observe the expected system indication and confirm the intended response while normal interlocks remain effective.

Q6 Which diagnostics should be reviewed if the MC-PRHM01 Remote Hardened Multiplexer I/O Processor stops performing its assigned system function?

Check seating, the matched Remote hardened multiplexer, the condition of PM/APM/HPM/EHPM cardfile and the model-specific diagnostics before replacing more hardware.

Q7 Can the MC-PRHM01 Remote Hardened Multiplexer I/O Processor used for Long-distance I/O concentration be transferred to another TPS Process Manager I/O position without engineering review?

No. Confirm the hardware execution, connector scheme and approved TPS Process Manager I/O configuration before transferring MC-PRHM01 to a different duty.

Q8 What evidence should be retained after the MC-PRHM01 Remote Hardened Multiplexer I/O Processor returns to Legacy RHM maintenance service?

Retain the physical identification, as-left wiring or configuration, final diagnostics and controlled functional-test result for MC-PRHM01.

SOURCE Honeywell TPS Process Manager I/O Specification | IO03-684 Rev.2

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