

51402573-250

UCN Interface Module Assembly

Honeywell 51402573-250 is a UCN interface module assembly for a High-Performance Process Manager. It provides the hardware communication path between the HPM and Universal Control Network.

PRODUCT SNAPSHOT

BRAND

Honeywell

FAMILY

TDC 3000 High-Performance Process Manager

PART

51402573-250

ORIGIN / HS

USA / 8537101190

APTER POWER SALES TEAM

WHATSAPP / PHONE

+86 180 3023 5313

EMAIL

sales13@apterpower.com

WEBSITE

www.apterpower.com



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PRODUCT OVERVIEW

Honeywell 51402573-250 is a UCN interface module assembly for a High-Performance Process Manager. It provides the hardware communication path between the HPM and Universal Control Network.

1

Connects the HPM to the Universal Control Network

2

Transfers controller data over UCN

3

Fits the HPM communication position

4

Supports redundant network operation

SYSTEM COMPONENTS

HPM controller

UCN A/B cabling

HPM communication control board

Controller cardfile

TECHNICAL DATA

PARAMETER	VALUE
Interface	UCN
Module function	HPM communication interface

PARAMETER	VALUE
Assembly	Module

APTER POWER

TECHNICAL NOTE

Keep UCN A and B paths identified, record the installed module position and confirm controller visibility on both network channels.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

HPM UCN communication

Connects the HPM to the Universal Control Network

Controller-node restoration

Transfers controller data over UCN

Redundant network testing

Fits the HPM communication position

Legacy UCN maintenance

Supports redundant network operation

PRODUCT PRECAUTIONS

- 1 Verify the complete 51402573-250 marking and the assigned TDC 3000 High-Performance Process Manager position before field work.
- 2 Isolate the applicable power, network and field energy before disconnecting 51402573-250.
- 3 Use ESD controls and protect the keyed connectors of 51402573-250 during handling.
- 4 Record the installed wiring, jumpers, node or channel assignment before replacement.
- 5 Confirm HPM controller and UCN A/B cabling against the approved system configuration.
- 6 Restore 51402573-250 under controlled conditions and review the product-specific diagnostics.
- 7 Complete a functional test for hpm ucn communication before production release.

ENGINEER FAQ

Q1 Which HPM controller identity must be verified before fitting the 51402573-250 UCN Interface Module Assembly?

Match the complete 51402573-250 marking, assigned TDC 3000 High-Performance Process Manager position and installed HPM controller before work.

Q2 How should UCN A/B cabling be isolated before disconnecting the 51402573-250 UCN Interface Module Assembly?

Place the affected process in its approved maintenance state, isolate applicable energy and prove UCN A/B cabling safe before disconnection.

Q3 What as-found wiring record is required for the 51402573-250 UCN Interface Module Assembly in HPM UCN communication?

Record terminal identity, polarity, shields, jumpers, cable tags and the as-found diagnostic state for 51402573-250.

Q4 Which TDC 3000 High-Performance Process Manager configuration must be checked when commissioning the 51402573-250 UCN Interface Module Assembly?

Verify the assigned channel, slot, node or interface and compare it with the approved TDC 3000 High-Performance Process Manager configuration before enabling 51402573-250.

Q5 How can the 51402573-250 UCN Interface Module Assembly be function-tested for Controller-node restoration 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 51402573-250 UCN Interface Module Assembly stops performing its assigned system function?

Check seating, the matched HPM controller, the condition of UCN A/B cabling and the model-specific diagnostics before replacing more hardware.

Q7 Can the 51402573-250 UCN Interface Module Assembly used for Redundant network testing be transferred to another TDC 3000 High-Performance Process Manager position without engineering review?

No. Confirm the hardware execution, connector scheme and approved TDC 3000 High-Performance Process Manager configuration before transferring 51402573-250 to a different duty.

Q8 What evidence should be retained after the 51402573-250 UCN Interface Module Assembly returns to Legacy UCN maintenance service?

Retain the physical identification, as-left wiring or configuration, final diagnostics and controlled functional-test result for 51402573-250.

SOURCE Honeywell HPM service manual | UCNIF module assembly

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