

51304518-150

APM Advanced Controller Board

Honeywell 51304518-150 is a conformally coated APM Advanced Controller board. It executes controller logic and coordinates I/O processing within an Advanced Process Manager cardfile.

PRODUCT SNAPSHOT

BRAND

Honeywell

FAMILY

TDC 3000 Advanced Process Manager

PART

51304518-150

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PRODUCT OVERVIEW

Honeywell 51304518-150 is a conformally coated APM Advanced Controller board. It executes controller logic and coordinates I/O processing within an Advanced Process Manager cardfile.

- 1 Executes Advanced Process Manager control functions
- 2 Coordinates the APM I/O link
- 3 Participates in the controller cardfile
- 4 Supports the documented APM redundancy arrangement

SYSTEM COMPONENTS

APM cardfile

APM I/O link boards

UCN interface hardware

Controller database

TECHNICAL DATA

PARAMETER	VALUE
Controller family	APM
Board coating	Conformal

PARAMETER	VALUE
Assembly	Controller board

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TECHNICAL NOTE

Back up the controller database and record the active/standby state before removal, then verify synchronization and a controlled role transfer.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

APM controller maintenance

Executes Advanced Process Manager control functions

Regulatory control execution

Coordinates the APM I/O link

Sequence and logic processing

Participates in the controller cardfile

Legacy TDC 3000 controller repair

Supports the documented APM redundancy arrangement

PRODUCT PRECAUTIONS

- 1 Verify the complete 51304518-150 marking and the assigned TDC 3000 Advanced Process Manager position before field work.
- 2 Isolate the applicable power, network and field energy before disconnecting 51304518-150.
- 3 Use ESD controls and protect the keyed connectors of 51304518-150 during handling.
- 4 Record the installed wiring, jumpers, node or channel assignment before replacement.
- 5 Confirm APM cardfile and APM I/O link boards against the approved system configuration.
- 6 Restore 51304518-150 under controlled conditions and review the product-specific diagnostics.
- 7 Complete a functional test for apm controller maintenance before production release.

ENGINEER FAQ

Q1 Which APM cardfile identity must be verified before fitting the 51304518-150 APM Advanced Controller Board?

Match the complete 51304518-150 marking, assigned TDC 3000 Advanced Process Manager position and installed APM cardfile before work.

Q2 How should APM I/O link boards be isolated before disconnecting the 51304518-150 APM Advanced Controller Board?

Place the affected process in its approved maintenance state, isolate applicable energy and prove APM I/O link boards safe before disconnection.

Q3 What as-found wiring record is required for the 51304518-150 APM Advanced Controller Board in APM controller maintenance?

Record terminal identity, polarity, shields, jumpers, cable tags and the as-found diagnostic state for 51304518-150.

Q4 Which TDC 3000 Advanced Process Manager configuration must be checked when commissioning the 51304518-150 APM Advanced Controller Board?

Verify the assigned channel, slot, node or interface and compare it with the approved TDC 3000 Advanced Process Manager configuration before enabling 51304518-150.

Q5 How can the 51304518-150 APM Advanced Controller Board be function-tested for Regulatory control execution 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 51304518-150 APM Advanced Controller Board stops performing its assigned system function?

Check seating, the matched APM cardfile, the condition of APM I/O link boards and the model-specific diagnostics before replacing more hardware.

Q7 Can the 51304518-150 APM Advanced Controller Board used for Sequence and logic processing be transferred to another TDC 3000 Advanced Process Manager position without engineering review?

No. Confirm the hardware execution, connector scheme and approved TDC 3000 Advanced Process Manager configuration before transferring 51304518-150 to a different duty.

Q8 What evidence should be retained after the 51304518-150 APM Advanced Controller Board returns to Legacy TDC 3000 controller repair service?

Retain the physical identification, as-left wiring or configuration, final diagnostics and controlled functional-test result for 51304518-150.

SOURCE Honeywell APM hardware service record | 51304518-150

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