

APTER POWER

COMPLETE PRODUCT INFORMATION

51304831-100

TPDG I/O Board

Honeywell 51304831-100 is a TPDG I/O board for a TDC 3000 Universal Station. It interfaces the display generator with the CRT, touchscreen, keyboard, pointing device and peripheral connections.

PRODUCT SNAPSHOT

BRAND

Honeywell

FAMILY

TDC 3000 Universal Station

PART

51304831-100

ORIGIN / HS

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PRODUCT OVERVIEW

Honeywell 51304831-100 is a TPDG I/O board for a TDC 3000 Universal Station. It interfaces the display generator with the CRT, touchscreen, keyboard, pointing device and peripheral connections.

1

Interfaces the Turbo Peripheral Display Generator

2

Connects CRT and touchscreen circuits

3

Provides keyboard and pointing-device interfaces

4

Carries printer and LCN peripheral connections

SYSTEM COMPONENTS

TPDG processor board

CRT and touchscreen cables

Keyboard interface board

Mouse or trackball

TECHNICAL DATA

PARAMETER	VALUE
Board type	TPDG I/O
Assembly number	51304831-100

PARAMETER	VALUE
Default CRT shading	J10/J11 selectable

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TECHNICAL NOTE

Label every cable and record J10/J11 default CRT shading before removal, then verify display, touch, keyboard and pointing-device operation.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Universal Station display repair

Interfaces the Turbo Peripheral Display Generator

Touchscreen restoration

Connects CRT and touchscreen circuits

Operator keyboard service

Provides keyboard and pointing-device interfaces

TPDG peripheral troubleshooting

Carries printer and LCN peripheral connections

PRODUCT PRECAUTIONS

- 1 Verify the complete 51304831-100 marking and the assigned TDC 3000 Universal Station position before field work.
- 2 Isolate the applicable power, network and field energy before disconnecting 51304831-100.
- 3 Use ESD controls and protect the keyed connectors of 51304831-100 during handling.
- 4 Record the installed wiring, jumpers, node or channel assignment before replacement.
- 5 Confirm TPDG processor board and CRT and touchscreen cables against the approved system configuration.
- 6 Restore 51304831-100 under controlled conditions and review the product-specific diagnostics.
- 7 Complete a functional test for universal station display repair before production release.

ENGINEER FAQ

Q1 Which TPDG processor board identity must be verified before fitting the 51304831-100 TPDG I/O Board?

Match the complete 51304831-100 marking, assigned TDC 3000 Universal Station position and installed TPDG processor board before work.

Q2 How should CRT and touchscreen cables be isolated before disconnecting the 51304831-100 TPDG I/O Board?

Place the affected process in its approved maintenance state, isolate applicable energy and prove CRT and touchscreen cables safe before disconnection.

Q3 What as-found wiring record is required for the 51304831-100 TPDG I/O Board in Universal Station display repair?

Record terminal identity, polarity, shields, jumpers, cable tags and the as-found diagnostic state for 51304831-100.

Q4 Which TDC 3000 Universal Station configuration must be checked when commissioning the 51304831-100 TPDG I/O Board?

Verify the assigned channel, slot, node or interface and compare it with the approved TDC 3000 Universal Station configuration before enabling 51304831-100.

Q5 How can the 51304831-100 TPDG I/O Board be function-tested for Touchscreen 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 51304831-100 TPDG I/O Board stops performing its assigned system function?

Check seating, the matched TPDG processor board, the condition of CRT and touchscreen cables and the model-specific diagnostics before replacing more hardware.

Q7 Can the 51304831-100 TPDG I/O Board used for Operator keyboard service be transferred to another TDC 3000 Universal Station position without engineering review?

No. Confirm the hardware execution, connector scheme and approved TDC 3000 Universal Station configuration before transferring 51304831-100 to a different duty.

Q8 What evidence should be retained after the 51304831-100 TPDG I/O Board returns to TPDG peripheral troubleshooting service?

Retain the physical identification, as-left wiring or configuration, final diagnostics and controlled functional-test result for 51304831-100.

SOURCE Honeywell Five/Ten-Slot Module Service | Figure 2-15

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