Honeywell TK-PRS022

C200E Control Processor

Honeywell TK-PRS022 is the C200E control processor for Experion PKS Series A chassis systems, executing deterministic Control Execution Environment strategies and coordinating supported I/O.

Job objective

Replace, install or verify the exact module without changing unrelated wiring, configuration, dimensions, weight or other stored product data.

Safe-work boundary

Identify Match the complete model and every suffix or secondary code.	**Isolate** Apply the plant-approved electrical and process isolation procedure.
Preserve Back up configuration and photograph all connections.	**Control** Use ESD protection and revision-controlled documentation.

Required evidence before work

Nameplate photo; slot/rack record; connector map; project backup where applicable; fault history; approved acceptance procedure.

Evidence and release scope

- Exact identity: Honeywell TK-PRS022
- Primary evidence: Honeywell System HINTS exact model listing for TK-PRS022
- Supporting evidence: Honeywell C200/C200E product specifications and controller overview
- Purpose: support controlled identification, preparation and acceptance without transferring sibling-model data.

Readiness checklist

Exact identity	Honeywell TK-PRS022 matches the work order and physical unit
System position	Rack, slot and functional assignment are recorded
Configuration	Parameters, firmware or project data are backed up when applicable
Connections	Every cable, terminal, jumper and shield is labeled
Condition	Connector, board and packaging condition are inspected
Test plan	Expected states and acceptance evidence are agreed

Interface preparation

Series A chassis	Compact chassis backplane and controller position
CEE database	Deterministic execution of control, acquisition and calculation function blocks
Supported I/O	Series A, Rail A, Rail H and Process Manager I/O families
System protocols	FOUNDATION Fieldbus, Profibus, DeviceNet and HART through the documented architecture

Engineering questions to close

- Installed assignment: confirm the physical location and functional duty against the controlled drawing.
- Interfaces: verify every connected device, termination and selector state before work.
- Energy boundary: identify all electrical, mechanical, process or stored-energy sources.
- Return-to-service boundary: agree the expected states, tests and sign-off authority in advance.

03 / INSTALLATION SEQUENCE

Controlled replacement workflow

1	Confirm isolation and absence of hazardous energy
2	Compare old and replacement identities and revisions
3	Photograph and label all connections
4	Remove the existing module using ESD-safe handling
5	Inspect slot, connector, grounding and cooling path
6	Install the exact replacement without forcing connectors
7	Restore cables, jumpers and settings from the controlled record
8	Perform a final visual and continuity check before energization

STOP POINT

Do not energize if the model, slot, connector orientation, grounding, jumper state or documented system assignment is unresolved.

Configuration-control record

- Nameplate record: model, suffix, revision and label condition.
- As-found record: position, connections, settings and fault indication.
- Source record: manufacturer document title, revision and applicable section.
- As-left record: measured results, restored configuration and outstanding actions.

Staged return to service

Stage	Action	Acceptance
Stage 1	Visual inspection and isolation release	Expected controlled result
Stage 2	Apply control power under observation	Expected controlled result
Stage 3	Confirm module recognition or status	Expected controlled result
Stage 4	Verify communication and affected signal paths	Expected controlled result
Stage 5	Exercise the documented function	Expected controlled result
Stage 6	Archive measured results and as-left configuration	Expected controlled result

Product-specific acceptance focus

1

Use grounded ESD controls and protect the backplane connector from contact damage.

2

Confirm the replacement processor, firmware and Experion release against the project record.

3

Restore network, redundancy and I/O associations before enabling control outputs.

4

Verify controller state, CEE execution, I/O status, redundancy and alarms before handover.

Acceptance evidence to capture

- Visual acceptance: correct identity, secure mounting, intact connector or container condition.
- Functional acceptance: expected sequence, status, signal or service result is demonstrated.
- Protection acceptance: alarms, interlocks and fail-state response are confirmed.
- Documentation acceptance: evidence is dated, attributable and stored with the maintenance record.

Fault isolation and final record

1	Unexpected state: stop and capture evidence
2	Recheck identity, power, slot and connectors
3	Compare configuration and revision records
4	Test surrounding system before condemning the module
5	Restore a safe state and document the outcome

Apter Power handover record

Model identity	Keep the complete Honeywell model code and every suffix in purchasing, installation and acceptance records.
Verification boundary	Confirm the physical nameplate, installed position and revision-controlled project documents before field work.
Apter Power support	Use the contact details and Apter Power website links in this document for product and sourcing support.

Related Apter Power references	Scope note
Honeywell TK-PPD011 battery extension module	Portfolio reference only; verify compatibility independently.
Honeywell TK-FTEB01 FTE bridge module	Portfolio reference only; verify compatibility independently.
Honeywell DCS product catalog	Portfolio reference only; verify compatibility independently.

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