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.

01	02	03	04
C200E exact-model processor	Experion PKS CEE execution	Single or redundant controller operation	Series A chassis form factor

System position

Experion control database	TK-PRS022 C200E processor	CEE function-block execution	Supported I/O and control outputs

Evidence boundary

Only verified exact-model facts and explicitly identified family context are included. Similar codes are not treated as substitutes.

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.

02 / CAPABILITY MAP

Engineering domains and architecture

Exact description	C200E Control Processor
Control environment	Control Execution Environment (CEE)
Memory units	16000 for C200E
Tagged objects	4095 for C200E

Execution period	50 to 2000 ms, adjustable
Supported I/O modules	64
Operating temperature	0 to 60 degrees C
Humidity	5 to 95% RH, non-condensing

Interface architecture

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.

Use cases with controlled scope

Continuous process control

Executes scheduled control strategies for process units in Experion PKS.

Batch automation

Supports Experion Batch Manager and ISA S88.01 batch-control structures.

Redundant control

Operates in fully redundant controller configurations for high-availability service.

Multi-family I/O integration

Coordinates the supported Series A, rail and Process Manager I/O families.

INTEGRATION CHECKPOINTS

Identity

Honeywell TK-PRS022 is preserved in full.

Host system

Rack, slot and surrounding hardware are verified.

Configuration

Project, firmware and settings are recorded.

Acceptance

Functional evidence is captured before release.

System relationship

Experion control database	TK-PRS022 C200E processor	CEE function-block execution	Supported I/O and control outputs

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.

Decision matrix

Question	Answer
What is Honeywell TK-PRS022?	TK-PRS022 is the C200E Control Processor listed by Honeywell for the Experion PKS Series A chassis platform.
Which execution environment runs on Honeywell TK-PRS022?	The C200E runs Honeywell's deterministic Control Execution Environment for control, data-acquisition and calculation function blocks.
Can Honeywell TK-PRS022 operate in a redundant controller arrangement?	Yes. Honeywell documents C200/C200E controllers for single or fully redundant configurations.
How many memory units are specified for Honeywell TK-PRS022 as a C200E?	The C200E specification lists 16000 memory units.

Eight release precautions

1

Verify the complete TK-PRS022 label and assigned C200E chassis position before work.

2

Back up the Experion control database, CEE configuration and controller assignment.

3

Follow Honeywell's approved redundancy and controller-switchover procedure before removal.

4

Isolate the chassis or use only an explicitly approved RIUP procedure for the installed release.

5

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

6

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

7

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

8

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

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Product verification and support

Apter Power verification 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.

	Apter Power technical and sourcing support sales13@apterpower.com +86 180 3023 5313 www.apterpower.com Scan for the Apter Power contact page.	Model record Honeywell TK-PRS022 C200E Control Processor Verify the complete nameplate before installation.