Honeywell CC-PCNT02 51454551-275

01 Capture the installed execution contract

Retain release and firmware evidence

Record the full controller marking, Experion release, CEE mode and extended-functionality image. Preserve the approved project backup, controller assignment and feature licensing before any hardware transfer.

Record the I/O and network topology

Identify both I/O link types, their assigned modules and the control-network paths. Capture any EIM, EtherNet/IP or advanced-control integration because it changes the acceptance scope.

Configuration evidence to retain

Release record	Experion release and controller firmware image
Execution record	Standard or optional fast CEE and licensed functions
Topology record	Both I/O links and external integration paths

Execution-image distinction

The optional 20 ms CEE requires a separate firmware image and license. It supports Series C I/O only, and SCM/RCM/MR functions are not supported in that configuration.

Honeywell CC-PCNT02 51454551-275

02 Reconcile controller identity and pair membership

Preserve the device-index relationship

For a redundant position, compare the odd device index n with the partner n+1. Identify both IOTAs and retain the redundancy cable routing before disconnecting the intended unit.

Establish the approved work state

Use the applicable C300 replacement procedure and the process maintenance plan. The capacity figures do not authorize energized hardware removal or arbitrary changes to IOTA wiring.

Pair and work-state ledger

Pair identity	Two intended controllers and their IOTAs
Index check	Odd n followed by partner n+1
Work boundary	Approved isolation or supported maintenance procedure

Pair synchronization

A short interruption describes control-processing continuity during the transfer. Synchronization rebuilds the redundancy relationship. Validate both milestones and the required downstream process behavior before treating the returning controller as a healthy spare.

Honeywell CC-PCNT02 51454551-275

03 Restore the correct I/O and firmware configuration

Check the restored CEE before loading

Verify the firmware image against the retained project. A 20 ms image cannot be assumed to support PM I/O or sequence functions that existed in a 50 ms project.

Check each link independently

Compare I/O presence and quality on both links. Trace a missing measurement to its assigned module and physical signal path before concluding that controller recognition proves the whole station healthy.

Restoration decision points

Firmware fit	Required CEE and extended functions present
Link 1	Expected type, module population and valid quality
Link 2	Expected type, module population and valid quality

Extended functions

EIM and Profit Controller integration require the CC-PCNT02 extended-functionality firmware image. Hardware identity alone does not establish that those functions are enabled.

Honeywell CC-PCNT02 51454551-275

04 Test communication and redundant recovery

Review workload after restoration

Confirm the requested peer periods, display subscriptions and communication diagnostics. Calculate outgoing demand before report-by-exception filtering instead of relying only on live traffic volume.

Observe both recovery milestones

In an approved test, record control interruption and completion of partner synchronization separately. Include the actual EtherNet/IP or dual-link fault conditions only where they are in the authorized test plan.

Recovery observations

Communication acceptance	Expected values with sufficient processing margin
Control recovery	Observed process response meets project criteria
Pair recovery	Required synchronized state and role relationship

Fault-dependent interruption

The nominal control-processing interruption is 500 ms for 50 ms CEE and 200 ms for 20 ms CEE. Dual I/O-link faults can take several seconds; Direct or Through EIM EtherNet/IP configurations can extend interruption to 2.5 seconds.

Honeywell CC-PCNT02 51454551-275

05 Demonstrate process acceptance and hand over

Trace meaningful field behavior

Verify representative measurements, commanded outputs and alarm paths through the restored project. A recognized controller and active network do not prove that the physical field circuits are mapped correctly.

Close temporary maintenance states

Clear authorized test forces and temporary connections. Retain the final backup, both controller identities, firmware versions and test results so that the next service action starts from an accurate system record.

Final acceptance evidence

Field acceptance	Measurements and commands reach intended circuits
Redundancy record	Roles and synchronization accepted where fitted
Handover record	Backup retained and temporary test states cleared

Additional automation product references

Foxboro FBM232 P0926GW

Foxboro P0922YU FPS400-24

Honeywell 900B08-0202

Separate products; no substitute or system compatibility is implied.