

APTER POWER ENGINEERING REFERENCE

CC-TCNT01

C300 Controller IOTA

The CC-TCNT01 is the C300 controller input/output termination assembly that mechanically and electrically interfaces the CC-PCNT01 controller with its Series C cabinet connections.

Parameter	Technical value
Manufacturer	Honeywell
Product model	CC-TCNT01
Part number	51308307-175
System family	Experion C300 / Series C
Document	Installation & Application Guide
Country	USA
HS code	8537101190

APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

One verified model, one engineered configuration path.

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SCAN FOR PRODUCT & QUOTE

CC-TCNT01

2. Installation Planning

The CC-TCNT01 is the C300 controller input/output termination assembly that mechanically and electrically interfaces the CC-PCNT01 controller with its Series C cabinet connections.

Pre-installation sequence

- De-energize and secure the controller position before IOTA work.
- Inspect connector pins and mechanical guides before insertion.
- Keep controller and IOTA model pairing intact.
- Validate controller network status after reassembly.

Matched components

- CC-PCNT01 C300 controller
- Series C cabinet mounting
- 24 Vdc system power distribution
- C300 network and controller cabling

3. Wiring and Interface Checks

Installation item	Required technical value
Model	CC-TCNT01
Part number	51308307-175
Hardware type	C300 Controller IOTA
Companion controller	CC-PCNT01
Supply	24 Vdc
IOTA current at 24 Vdc	0 A
IOTA heat dissipation	0 W
Country	USA
HS code	8537101190

Interface controls

- Use only the CC-TCNT01 hardware identity and the matched components listed for this product.
- Record wiring, polarity, addressing or channel allocation before disturbing installed conductors.
- Keep field circuits de-energized until continuity and insulation checks are complete.
- Apply the product-specific limits in the table during loop or channel testing.

4. Commissioning and Functional Test

- 1 Confirm that CC-TCNT01 and part number 51308307-175 match the cabinet record.
- 2 Verify the connection to CC-PCNT01 C300 controller before applying operating power.
- 3 Check the product function: provides the termination carrier for a c300 controller.
- 4 Simulate or apply a controlled signal for c300 process-control cabinets.
- 5 Compare the channel indication or output state with the control database.
- 6 Record baseline values and restore the field circuit to its operating configuration.

5. Diagnostics and Return to Service

Product-specific diagnostic questions

How should an engineer verify zero-IOTA current entry on CC-TCNT01?

Use the CC-TCNT01 technical limit or configuration stated for zero-IOTA current entry, then verify it at the installed channel before service.

What must be checked for CC-PCNT01 pairing on CC-TCNT01?

Treat CC-PCNT01 pairing as a product-specific commissioning point and compare the field condition with the Honeywell hardware configuration.

Which system detail controls controller seating on CC-TCNT01?

The required check concerns controller seating; confirm the connected hardware is the matched component listed for CC-TCNT01.

Why is it important to confirm connector-pin inspection on CC-TCNT01?

For connector-pin inspection, isolate the circuit, record its present configuration and apply the stated Honeywell limit before re-energization.

RETURN-TO-SERVICE CHECK

Confirm model CC-TCNT01, cabinet wiring, control-system channel assignment and the intended field response before releasing the equipment for production.