

CC-TUIO31

Universal I/O IOTA

Honeywell CC-TUIO31 is a 32-channel Universal I/O termination assembly that connects mixed field signals to the matched Series C Universal I/O module.

PRODUCT SNAPSHOT

BRAND

Honeywell

FAMILY

Experion Series C Universal I/O

PART

51306875-176

ORIGIN / HS

USA / 8537101190

APTER POWER SALES TEAM

WHATSAPP / PHONE

+86 180 3023 5313

EMAIL

sales13@apterpower.com

WEBSITE

www.apterpower.com



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PRODUCT OVERVIEW

Honeywell CC-TUIO31 is a 32-channel Universal I/O termination assembly that connects mixed field signals to the matched Series C Universal I/O module.

1

Terminates thirty-two universal field channels

2

Supports mixed analog and discrete assignments

3

Pairs with the Universal I/O module

4

Allows channel-by-channel marshalling

SYSTEM COMPONENTS

CC-PUIO31 Universal I/O module

Series C carrier

Universal marshalling cabinet

Field terminal blocks

TECHNICAL DATA

PARAMETER	VALUE
Universal channels	32
Supported signal families	AI; AO; DI; DO
Module interface	CC-PUIO31

PARAMETER	VALUE
Field termination	Removable terminal blocks
Channel protection	Per-channel electronic protection

TECHNICAL NOTE

Fit the channel protection and terminal arrangement specified for each assigned signal type, then verify the configured channel personality before field energization.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Late-bound process I/O cabinets

Terminates thirty-two universal field channels

Universal marshalling projects

Supports mixed analog and discrete assignments

Mixed-signal skid integration

Pairs with the Universal I/O module

Brownfield I/O migration

Allows channel-by-channel marshalling

PRODUCT PRECAUTIONS

- 1 Verify the complete CC-TUIO31 marking and its assigned Experion Series C Universal I/O position before work.
- 2 Isolate the applicable power and field energy before disconnecting CC-TUIO31.
- 3 Protect CC-TUIO31 connectors and electronic assemblies with approved ESD controls.
- 4 Record the installed wiring, channel assignment and configuration before replacement.
- 5 Match CC-PUIO31 Universal I/O module and Series C carrier to the documented system arrangement.
- 6 Commission CC-TUIO31 with controlled status, signal and diagnostic checks.
- 7 Retain the final late-bound process i/o cabinets functional-test result in the maintenance record.

ENGINEER FAQ

Q1 Does CC-TUIO31 match CC-PUIO31 Universal I/O module in a Late-bound process I/O cabinets installation?

Verify the complete CC-TUIO31 marking, the documented Experion Series C Universal I/O position and the installed CC-PUIO31 Universal I/O module before fitting the assembly.

Q2 How should CC-TUIO31 be wired when it must terminates thirty-two universal field channels?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for CC-TUIO31; then continuity-test the affected path.

Q3 Which Experion Series C Universal I/O records should be captured before removing CC-TUIO31?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with CC-TUIO31 before disconnection.

Q4 What controlled test confirms that CC-TUIO31 can supports mixed analog and discrete assignments?

Apply the approved field or simulated stimulus, observe the Experion Series C Universal I/O indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which Series C carrier condition should be checked when CC-TUIO31 reports an abnormal state?

Check the Series C carrier supply, seating and connection first, then compare channel diagnostics with the recorded CC-TUIO31 baseline.

Q6 Can CC-TUIO31 be moved directly into Universal marshalling projects without validating Field terminal blocks?

No. Confirm the Field terminal blocks, revision, connection scheme and Experion Series C Universal I/O configuration before transferring CC-TUIO31 to that duty.

Q7 What maintenance evidence is required after CC-TUIO31 is used for Mixed-signal skid integration?

Retain the nameplate record, corrective action, final diagnostics and a controlled mixed-signal skid integration functional-test result for CC-TUIO31.

Q8 How should CC-TUIO31 be returned to service in Brownfield I/O migration?

Restore power under control, verify pairs with the universal i/o module, exercise the intended signal path and release CC-TUIO31 only after the Experion Series C Universal I/O remains in its approved operating state.

SOURCE Honeywell Series C I/O Specification | EP03-490-520 V10

+86 180 3023 5313 | sales13@apterpower.com | www.apterpower.com