

CC-TAID11

Redundant Sixteen-Channel Analog Input IOTA

Honeywell CC-TAID11 is a 16-channel differential analog-input IOTA for redundant Series C I/O. It terminates measurement loops for paired high-level or universal analog-input modules.

PRODUCT SNAPSHOT

BRAND

Honeywell

FAMILY

Experion Series C I/O

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PRODUCT OVERVIEW

Honeywell CC-TAID11 is a 16-channel differential analog-input IOTA for redundant Series C I/O. It terminates measurement loops for paired high-level or universal analog-input modules.

1

Terminates sixteen differential analog input channels

2

Supports paired analog-input modules

3

Connects field measurement loops to Series C I/O

4

Maintains one field interface during module redundancy

SYSTEM COMPONENTS

Series C carrier

Paired CC-PAIH or CC-PAIX modules

Differential analog field wiring

C300 control configuration

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
CC-MCAR01	Experion Series C carrier assembly	Open product page
DC-TFB412	Redundant Series C FIM IOTA	Open product page
DC-TCF901	Series C Mark II Control Firewall IOTA	Open product page
CC-TDIL11	Redundant Series C digital-input IOTA	Open product page

TECHNICAL DATA

PARAMETER	VALUE
IOTA function	Redundant analog input IOTA
Input channels	16
Differential channels	1 to 16 with CC-TAIDx1
Redundancy	Supported
IOTA size	12 inch; 304 mm nominal
Compatible I/O modules	CC-PAIH02; CC-PAIX02
Input type	Voltage; current; 2-wire or self-powered transmitters
Input ranges	0 to 5 V; 1 to 5 V; 0.4 to 2 V; 4 to 20 mA through 250 ohm
Common-mode rejection	70 dB; dc to 60 Hz
Common-mode voltage	-6 to +5 V peak; dc to 60 Hz
A/D resolution	16 bits
Normal-mode rejection	19 dB at 60 Hz
Normal-mode filter	Single-pole RC; -3 dB at 6.5 Hz
Maximum differential input	+/-30 V; no damage

PARAMETER	VALUE
Channel crosstalk	-60 dB; dc to 60 Hz
Voltage-input impedance	>10 Mohm; powered
Input scan rate	50 ms
Hardware accuracy at 23.5 degC	+/-0.075% of full scale
Hardware accuracy at 0 to 60 degC	+/-0.15% of full scale
Field conductor capacity	Up to 12 AWG; 2.5 mm2 stranded
IOM field power	Supplied through IOTA
IOTA supply source	24 Vdc carrier bus
Field terminals	Two-level detachable terminals
Mounting orientation	Vertical
Transmitter power protection	Individually protected current-limiting circuits
Non-incendive interface	Class I, Division 2
Inline channel fusing	Not required

TECHNICAL NOTE

Confirm both module types, preserve channel polarity and shield treatment, then verify redundancy status and scaled values on every restored loop.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Redundant process-transmitter inputs

Terminates sixteen differential analog input channels

Critical pressure and flow measurement

Supports paired analog-input modules

High-availability temperature acquisition

Connects field measurement loops to Series C I/O

Series C analog cabinet replacement

Maintains one field interface during module redundancy

PRODUCT PRECAUTIONS

- 1 Verify the complete CC-TAID11 marking and its assigned Experion Series C I/O position before work.
- 2 Isolate the energy associated with Series C carrier before disconnecting CC-TAID11.
- 3 Protect the CC-TAID11 connectors and electronic assembly using approved ESD controls.
- 4 Record the as-found Paired CC-PAIH or CC-PAIX modules connections and configured assignment before replacement.
- 5 Confirm Differential analog field wiring matches the approved installation record for CC-TAID11.
- 6 Restore CC-TAID11 under controlled conditions and review its model-specific diagnostics.
- 7 Complete a documented functional test for redundant process-transmitter inputs before release.

ENGINEER FAQ

Q1 How should engineers validate CC-TAID11 after configuration?

Restore the documented Experion Series C I/O assignment, review diagnostics and run a controlled test of its role: terminates sixteen differential analog input channels.

Q3 Which technical value is especially important during CC-TAID11 commissioning?

Verify Normal-mode rejection is 19 dB at 60 Hz and use the named manufacturer procedure for the controlled functional test.

Q5 What evidence should be retained after CC-TAID11 returns to service?

Retain the full model identity, as-left connections, configuration, diagnostic result and the final controlled test record for redundant process-transmitter inputs.

Q7 Which companion hardware must be checked when replacing CC-TAID11?

Verify Series C carrier, Paired CC-PAIH or CC-PAIX modules and Differential analog field wiring against the approved cabinet and project record before fitting the Redundant Sixteen-Channel Analog Input IOTA.

Q2 Can CC-TAID11 be moved to a different slot or duty without review?

No. Confirm keying, companion hardware and the approved configuration before assigning CC-TAID11 to another position or function.

Q4 What should be checked if CC-TAID11 does not support critical pressure and flow measurement after installation?

Check seating, Paired CC-PAIH or CC-PAIX modules, Differential analog field wiring, field energy and the model-specific diagnostics before replacing additional hardware.

Q6 How is CC-TAID11 identified before installation in a Experion Series C I/O cabinet?

Match the full CC-TAID11 marking and part number 51306731-175 to the assigned position and installed Series C carrier.

Q8 What wiring information should be recorded before removing CC-TAID11?

Record terminal identifiers, polarity or phase, shields, cable tags and the as-found channel or port assignment for CC-TAID11.