

CC-TAOX01

Sixteen-Point Analog Output IOTA

Sixteen 4-20 mA analog-output loop connections

PRODUCT SNAPSHOT

BRAND

Honeywell

FAMILY

Experion Series-C I/O

PART

CC-TAOX01

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PRODUCT OVERVIEW

Sixteen 4-20 mA analog-output loop connections

1

Terminates sixteen current-output channels

2

Accepts CC-PAOH01 or CC-PAOX01 electronics

3

Connects two sixteen-pin terminal plugs

4

Supports nonredundant 4-20 mA field-loop wiring

SYSTEM COMPONENTS

CC-PAOH01 or CC-PAOX01 output module

two 16-pin terminal plugs

22 to 28 V DC loop supply

4-20 mA final elements

TECHNICAL NOTE

Label both terminal plugs and all loop conductors, match the installed output module, verify loop supply/load and command each channel at controlled values.

TECHNICAL DATA

PARAMETER	VALUE
IOTA type	Analog output; nonredundant
Channels	16
Physical size	6 in
Compatible modules	CC-PAOH01 and CC-PAOX01
Output range	4 to 20 mA
Output ripple	<100 mV peak-to-peak across 250 Ohm
Temperature drift	0.005% FS/degC

PARAMETER	VALUE
Readback accuracy	+/-4% FS
Current linearity	+/-0.05% FS nominal
Resolution	+/-0.05% FS
Calibrated accuracy	+/-0.35% FS at 25 degC
Direct-set range	0 mA or 2.9 to 21.1 mA
Maximum load	800 Ohm at 22 to 28 V DC supply
Terminal plugs	Two 16-pin; 51506273-216

ENGINEERING NOTE

Label both terminal plugs and all loop conductors, match the installed output module, verify loop supply/load and command each channel at controlled values.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
CC-PUIO31	Related industrial automation product	View CC-PUIO31 page
MU-TAMT03	Related industrial automation product	View MU-TAMT03 page
MU-TAMR03-51309218-125	Related industrial automation product	View MU-TAMR03-51309218-125 page
80363972-100	Related industrial automation product	View 80363972-100 page
MU-TDOA13	Related industrial automation product	View MU-TDOA13 page
MU-TPIX12	Related industrial automation product	View MU-TPIX12 page
MU-TDOR22	Related industrial automation product	View MU-TDOR22 page
51304441-125	Related industrial automation product	View 51304441-125 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Control-valve command termination

Terminates sixteen current-output channels

Variable-speed drive reference

Accepts CC-PAOH01 or CC-PAOX01 electronics

Analog final-element cabinet wiring

Connects two sixteen-pin terminal plugs

Output-IOTA renewal

Supports nonredundant 4-20 mA field-loop wiring

PRODUCT PRECAUTIONS

- 1 Verify the complete CC-TAOX01 marking and its assigned analog-output IOTA position before work.
- 2 Place the connected process and control strategy in the approved maintenance state.
- 3 Isolate the applicable cabinet supply and 4-20 mA output field energy before disconnecting conductors.
- 4 Record terminal numbers, channel assignments, polarity, shields and configured ranges before removal.
- 5 Use ESD controls and protect the backplane connector, terminal hardware and coated electronics.
- 6 Confirm the installed CC-PAOH01 or CC-PAOX01 module and carrier arrangement against the approved project.
- 7 Restore power in a controlled sequence and clear only diagnostics created by the maintenance activity.
- 8 Complete low, midpoint and high output-loop tests and retain the measured result before returning the channel to automatic service.

ENGINEER FAQ

Q1 Does CC-TAOX01 match CC-PAOH01 or CC-PAOX01 output module in a Control-valve command termination installation?

Verify the complete CC-TAOX01 marking, the documented Experion Series-C I/O position and the installed CC-PAOH01 or CC-PAOX01 output module before fitting the assembly.

Q3 Which Experion Series-C I/O records should be captured before removing CC-TAOX01?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with CC-TAOX01 before disconnection.

Q5 Which two 16-pin terminal plugs condition should be checked when CC-TAOX01 reports an abnormal state?

Check the two 16-pin terminal plugs supply, seating and connection first, then compare channel diagnostics with the recorded CC-TAOX01 baseline.

Q7 What maintenance evidence is required after CC-TAOX01 is used for Analog final-element cabinet wiring?

Retain the nameplate record, corrective action, final diagnostics and a controlled analog final-element cabinet wiring functional-test result for CC-TAOX01.

Q2 How should CC-TAOX01 be wired when it must terminates sixteen current-output channels?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for CC-TAOX01; then continuity-test the affected path.

Q4 What controlled test confirms that CC-TAOX01 can accepts cc-paoh01 or cc-paox01 electronics?

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

Q6 Can CC-TAOX01 be moved directly into Variable-speed drive reference without validating 4-20 mA final elements?

No. Confirm the 4-20 mA final elements, revision, connection scheme and Experion Series-C I/O configuration before transferring CC-TAOX01 to that duty.

Q8 How should CC-TAOX01 be returned to service in Output-IOTA renewal?

Restore power under control, verify connects two sixteen-pin terminal plugs, exercise the intended signal path and release CC-TAOX01 only after the Experion Series-C I/O remains in its approved operating state.

SOURCE Honeywell Experion Series-C I/O Specification | EP03-490-520, Release 520, Version 1.5

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