

CC-PAON01 51410070-175

CC-PAON01 High-Level Analog Output Module

CC-PAON01 High-Level Analog Output Module

PRODUCT SNAPSHOT

BRAND
Honeywell

FAMILY
Experion PKS Series C I/O

PART
CC-PAON01 51410070-175

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

WHATSAPP / PHONE

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PRODUCT OVERVIEW

Honeywell CC-PAON01 51410070-175 provides generation and supervision of sixteen 4-20 mA process outputs in a documented Experion PKS Series C I/O installation.

-  Sixteen 4-20 mA outputs
-  Output readback and discrepancy monitoring
-  Open-wire diagnostics
-  Optional redundant Series C arrangement

RELATED APTER POWER PAGES		
 ABB INTKM01	 ABB RRIA-01	 ABB RDCO-02C 3ABD64606956
 ABB RPBA-01 3ABD64606859	 ABB DSDO110 57160001-K	 ABB MB510
 ABB NAOM01	 ABB NISA-03	 ABB NTAC-02

SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
Proximity probe	Matched extension cable
Proximitor Sensor	AISI 4140 target

ENGINEERING CONTEXT

The component remains matched to its documented host position, field connections and approved engineering configuration. Commissioning restores that architecture and verifies the intended function under controlled conditions.

TECHNICAL DATA

PARAMETER	VALUE	PARAMETER	VALUE
Product type	High-level analog output module	Calibrated accuracy	+/-0.35% of full scale at 25 degC
Module model	CC-PAON01	Linearity	+/-0.05% of full scale nominal
Manufacturer item number	51410070-175	Resolution	+/-0.05% of full scale
I/O family	Experion PKS Series C I/O	Drift	0.005% of full scale per degC
Channels	16 analog outputs	Output ripple	Less than 100 mV peak-to-peak across 250 ohm
Output range	4-20 mA	Readback accuracy	+/-4% of full scale
Direct-set range	0 mA or 2.9-21.1 mA	Redundancy	Optional
Maximum load	800 ohm with 22-28 V supply	Diagnostics	Output readback discrepancy and open-wire detection
Compliance voltage	16 V	Nonincendive field wiring	Supported by documented execution
Maximum open-circuit voltage	22 V	Non-redundant IOTA	CC-TAON01
Response	Within 1% in 80 ms	Redundant IOTA	CC-TAON11

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- 2

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- 5

ABB DSDO110 57160001-K
- 6

ABB MB510
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ABB NAOM01
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ABB NISA-03
- 9

ABB NTAC-02

TECHNICAL NOTE

Install CC-PAON01 51410070-175 only in the documented Experion PKS Series C I/O position and preserve its exact wiring, interfaces and configuration. After controlled energization, verify diagnostics and generation and supervision of sixteen 4-20 mA process outputs before release.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Process valve positioning

Drives documented 4-20 mA final-control elements from a Series C output channel.

Analog setpoint delivery

Provides supervised current outputs for compatible process devices.

Redundant analog output

Uses the approved redundant IOTA and peer-module arrangement.

Series C replacement

Restores channel assignments, fail behavior and controlled output verification.

PRODUCT PRECAUTIONS

1

Confirm CC-PAON01 and item number 51410070-175 on the module record.

2

Place all sixteen output loops in the approved maintenance state.

3

Record channel assignments, commanded values, FAILOPT behavior and redundancy status.

4

Isolate the module and field circuits using the documented Series C procedure.

5

Verify the CC-TAON01 or CC-TAON11 IOTA and loop polarity.

6

Restore each 4-20 mA range, load and channel configuration.

7

Review readback discrepancy, open-wire and module diagnostics.

8

Command controlled outputs on every assigned channel before release.

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ENGINEER FAQ

Q1 How many 4-20 mA channels does CC-PAON01 51410070-175 provide?

It provides sixteen high-level analog output channels.

Q2 Which Series C IOTA choices are documented for CC-PAON01 51410070-175?

CC-TAON01 is the non-redundant IOTA and CC-TAON11 is the redundant IOTA.

Q3 What maximum load applies to CC-PAON01 51410070-175 with a 22-28 V supply?

The documented maximum load is 800 ohm.

Q4 Which output-response figure is documented for CC-PAON01 51410070-175?

The output reaches within 1% of the commanded value in 80 ms.

Q5 How does CC-PAON01 51410070-175 detect an output-path problem?

It supports output readback discrepancy alarming and open-wire detection.

Q6 Which direct-set current range can be commanded on CC-PAON01 51410070-175?

The documented direct-set range is 0 mA or 2.9-21.1 mA.

Q7 When is redundant operation available for CC-PAON01 51410070-175?

Use the documented redundant IOTA and matched peer-module arrangement.

Q8 Which controlled test releases CC-PAON01 51410070-175 after replacement?

Command and measure every assigned output while checking readback and diagnostics.

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6 ABB MB510

7 ABB NAOM01

8 ABB NISA-03

9 ABB NTAC-02

SOURCE Honeywell Series C I/O Specification EP03-490-520, Version 1.5 | Official Honeywell manufacturer publication

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