

INDUSTRIAL AUTOMATION PRODUCT

CC-PAON01 51410070-175

CC-PAON01 High-Level Analog Output Module

Honeywell CC-PAON01 51410070-175 is a 16-channel Series C high-level analog output module for 4-20 mA process signals. It supports output readback, open-wire detection and optional redundant operation with the documented IOTA.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	Honeywell
System family	Experion PKS Series C I/O
Part number	CC-PAON01 51410070-175
Document status	Controlled product and system reference

DOCUMENT SCOPE

Exact article identity, official technical data, host matching, installation checks, applications, precautions and controlled acceptance evidence.

MODEL-SPECIFIC ENGINEERING 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.

System Role and Architecture

Honeywell CC-PAON01 51410070-175 is a 16-channel Series C high-level analog output module for 4-20 mA process signals. It supports output readback, open-wire detection and optional redundant operation with the documented IOTA.

FUNCTION 1
Sixteen 4-20 mA outputs

FUNCTION 2
Output readback and discrepancy monitoring

FUNCTION 3
Open-wire diagnostics

FUNCTION 4
Optional redundant Series C arrangement

RELATED APTER POWER PAGES		
1	ABB DSMB127 57360001-HG	2
2	ABB DSBC174 3BSE012211R1	3
3	ABB DSDX454 5716075-AT	4
4	ABB DO630 3BHT300007R1	5
5	ABB DSAI145 57120001-HA	6
6	ABB DSAI130 57120001-P	7
7	ABB DSAI110 57120001-DP	8
8	ABB DSTY101 57120001-KY	9
9	ABB TU835V1 3BSE013236R1	

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	Experion PKS Series C I/O
02	Matched Experion PKS Series C I/O host and field interface
03	Documented power, signal, communication and grounding connections
04	Approved configuration, diagnostics and acceptance record

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	Experion PKS Series C I/O
Interface role	generation and supervision of sixteen 4-20 mA process outputs
Field / power context	documented Experion PKS Series C I/O installed position
Commissioning evidence	Identity, wiring, configuration, diagnostics and controlled response recorded

INSTALLATION AND CONNECTION CHECKS

- 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.

Technical Specifications

Technical values below are limited to the named product record and directly applicable manufacturer documentation.

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

RELATED PRODUCT PAGES

1 ABB DSMB127 57360001-HG

2 ABB DSBC174 3BSE012211R1

3 ABB DSDX454 5716075-AT

4 ABB DO630 3BHT300007R1

5 ABB DSAI145 57120001-HA

6 ABB DSAI130 57120001-P

ENGINEERING BOUNDARY

Confirm CC-PAON01 51410070-175, its exact host, installed position, interfaces, configuration, diagnostics and controlled acceptance evidence before release.

PRE-INSTALLATION CHECKS

- 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.

Applications and Engineering Context

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.

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	CC-PAON01 51410070-175 recorded
Host / carrier	Experion PKS Series C I/O
Physical interface	Installed terminals, ports and signals matched to the as-found record
Configuration	Approved Honeywell hardware and system configuration restored
Functional proof	Controlled test confirms generation and supervision of sixteen 4-20 mA process outputs

IMPORTANT NOTICE

Confirm CC-PAON01 51410070-175, its exact host, installed position, interfaces, configuration, diagnostics and controlled acceptance evidence before release.

Related Products and Source Record

Brand-qualified Apter Power navigation links are provided for system planning only; manufacturer evidence remains the named source record.

RELATED PRODUCTS ON APTER POWER

1

ABB DSMB127 57360001-HG

View ABB DSMB127 57360001-HG page

2

ABB DSBC174 3BSE012211R1

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ABB DSAI130 57120001-P

View ABB DSAI130 57120001-P page

7

ABB DSAI110 57120001-DP

View ABB DSAI110 57120001-DP page

8

ABB DSTY101 57120001-KY

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9

ABB TU835V1 3BSE013236R1

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MANUFACTURER SOURCE RECORD

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

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RECOMMENDATION SCOPE

These links support product navigation and comparison. Technical values in this document are sourced only from the manufacturer record above.