CC-PAIX02

High-Level Analog Input Module

High-level analog voltage and 4-20 mA process inputs

PRODUCT SNAPSHOT

BRAND	**FAMILY**
Honeywell	Experion Series-C I/O
PART	**ORIGIN / HS**
CC-PAIX02	USA / 8537101190

APTER POWER SALES TEAM

WHATSAPP / PHONE
+86 180 3023 5313

EMAIL
sales13@apterpower.com

WEBSITE
www.apterpower.com

PRODUCT OVERVIEW

High-level analog voltage and 4-20 mA process inputs

1. Acquires sixteen analog process channels
2. Supports single-ended and differential input arrangements
3. Converts field values with a sixteen-bit A/D converter
4. Pairs with the documented Series-C analog-input IOTAs

SYSTEM COMPONENTS

- approved Series-C input IOTA
- 2-wire or self-powered transmitters
- Series-C carrier
- Experion Control Builder configuration

TECHNICAL NOTE

Match the installed IOTA, single-ended/differential allocation, 250-ohm current input path, channel range, grounding and transmitter power before loop checks.

TECHNICAL DATA

PARAMETER	VALUE
Input type	Voltage or current; 2-wire or self-powered transmitters
Channels	16; 12 single-ended / 4 differential
A/D resolution	16 bit
Ranges	0-5 V; 1-5 V; 0.4-2 V; 4-20 mA through 250 Ohm
CMRR	70 dB, dc to 60 Hz
Common-mode voltage	-6 to +5 V peak
NMRR	19 dB at 60 Hz
Input filter	Single pole; -3 dB at 6.5 Hz

PARAMETER	VALUE
Maximum differential input	+/-30 V
Crosstalk	-60 dB
Powered input impedance	>10 MOhm
Scan period	50 ms
Accuracy at 23.5 +/-2 degC	+/-0.075% FS
Accuracy at 0 to 60 degC	+/-0.15% FS
Compatible IOTAs	CC-TAIX01, CC-TAIX11, CC-GAIX21, CC-GAIX11, CC-TAID01, CC-TAID11

ENGINEERING NOTE

Match the installed IOTA, single-ended/differential allocation, 250-ohm current input path, channel range, grounding and transmitter power before loop checks.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
10024-H-F	Related industrial automation product	**View 10024-H-F page**
TK-PPD011	Related industrial automation product	**View TK-PPD011 page**
10014-I-F	Related industrial automation product	**View 10014-I-F page**
51196694-350-U1	Related industrial automation product	**View 51196694-350-U1 page**
FC-SCNTO2	Related industrial automation product	**View FC-SCNTO2 page**
FC-CPCHAS-0001	Related industrial automation product	**View FC-CPCHAS-0001 page**
CC-PCNT05-51308592-176	Related industrial automation product	**View CC-PCNT05-51308592-176 page**
8C-PDISA1-51454471-276	Related industrial automation product	**View 8C-PDISA1-51454471-276 page**

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Pressure and flow acquisition

Acquires sixteen analog process channels

Differential voltage measurement

Supports single-ended and differential input arrangements

Process-temperature transmitter input

Converts field values with a sixteen-bit A/D converter

Analog-input module replacement

Pairs with the documented Series-C analog-input IOTAs

PRODUCT PRECAUTIONS

1. Verify the complete CC-PAIX02 marking and its assigned high-level analog-input position before work.
2. Place the connected process and control strategy in the approved maintenance state.
3. Isolate the applicable cabinet supply and analog input 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 selected Series-C input IOTA 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 loop simulation on each used channel and retain the measured result before returning the channel to automatic service.

ENGINEER FAQ

Q1 Does CC-PAIX02 match approved Series-C input IOTA in a Pressure and flow acquisition installation?

Verify the complete CC-PAIX02 marking, the documented Experion Series-C I/O position and the installed approved Series-C input IOTA before fitting the assembly.

Q2 How should CC-PAIX02 be wired when it must acquires sixteen analog process channels?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for CC-PAIX02; then continuity-test the affected path.

Q3 Which Experion Series-C I/O records should be captured before removing CC-PAIX02?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with CC-PAIX02 before disconnection.

Q4 What controlled test confirms that CC-PAIX02 can supports single-ended and differential input arrangements?

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.

Q5 Which 2-wire or self-powered transmitters condition should be checked when CC-PAIX02 reports an abnormal state?

Check the 2-wire or self-powered transmitters supply, seating and connection first, then compare channel diagnostics with the recorded CC-PAIX02 baseline.

Q6 Can CC-PAIX02 be moved directly into Differential voltage measurement without validating Experion Control Builder configuration?

No. Confirm the Experion Control Builder configuration, revision, connection scheme and Experion Series-C I/O configuration before transferring CC-PAIX02 to that duty.

Q7 What maintenance evidence is required after CC-PAIX02 is used for Process-temperature transmitter input?

Retain the nameplate record, corrective action, final diagnostics and a controlled process-temperature transmitter input functional-test result for CC-PAIX02.

Q8 How should CC-PAIX02 be returned to service in Analog-input module replacement?

Restore power under control, verify converts field values with a sixteen-bit a/d converter, exercise the intended signal path and release CC-PAIX02 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

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