

CC-PAIH01

High-Level Analog Input Module with HART

High-level analog current/voltage inputs plus HART digital communication

PRODUCT SNAPSHOT

BRAND
Honeywell

FAMILY
Experion Series-C I/O

PART
CC-PAIH01

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PRODUCT OVERVIEW

High-level analog current/voltage inputs plus HART digital communication

- 1 Processes sixteen high-level analog channels
- 2 Supports HART communication with connected field devices
- 3 Provides four differential voltage-input positions
- 4 Offers open-wire detection and loop diagnostics

SYSTEM COMPONENTS

CC-TAIX01 or redundant CC-TAIX11 IOTA

HART or conventional transmitters

Series-C carrier

Experion control and asset configuration

TECHNICAL NOTE

Confirm the CC-TAIX01/CC-TAIX11 arrangement, IOTA jumpers, voltage-channel allocation, loop power and HART device identity before scanning and diagnostics.

TECHNICAL DATA

PARAMETER	VALUE
Input type	Voltage or current; 2-wire or self-powered transmitters
Channels	16; 12 single-ended / 4 differential
Voltage-input channels	13 to 16
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

PARAMETER	VALUE
Input filter	Single pole; -3 dB at 6.5 Hz
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 redundant

ENGINEERING NOTE

Confirm the CC-TAIX01/CC-TAIX11 arrangement, IOTA jumpers, voltage-channel allocation, loop power and HART device identity before scanning and diagnostics.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
CC-PDOB01-51405043-175	Related industrial automation product	View CC-PDOB01-51405043-175 page
CC-PFB401-51405044-175	Related industrial automation product	View CC-PFB401-51405044-175 page
10014-H-F	Related industrial automation product	View 10014-H-F page
10006-2-1	Related industrial automation product	View 10006-2-1 page
SPS5785-51198651-100	Related industrial automation product	View SPS5785-51198651-100 page
MC-TAMT03-51309223-175	Related industrial automation product	View MC-TAMT03-51309223-175 page
MC-TDOY22-51204162-175	Related industrial automation product	View MC-TDOY22-51204162-175 page
MC-TDID12-51304441-175	Related industrial automation product	View MC-TDID12-51304441-175 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

HART pressure-transmitter integration

Processes sixteen high-level analog channels

Multivariable flow measurement

Supports HART communication with connected field devices

Process analog acquisition

Provides four differential voltage-input positions

Redundant analog-input renewal

Offers open-wire detection and loop diagnostics

PRODUCT PRECAUTIONS

- 1 Verify the complete CC-PAIH01 marking and its assigned HART 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 and HART 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-TAIX01 or CC-TAIX11 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 analog scaling, open-wire and HART communication checks and retain the measured result before returning the channel to automatic service.

ENGINEER FAQ

Q1 Does CC-PAIH01 match CC-TAIX01 or redundant CC-TAIX11 IOTA in a HART pressure-transmitter integration installation?

Verify the complete CC-PAIH01 marking, the documented Experion Series-C I/O position and the installed CC-TAIX01 or redundant CC-TAIX11 IOTA before fitting the assembly.

Q3 Which Experion Series-C I/O records should be captured before removing CC-PAIH01?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with CC-PAIH01 before disconnection.

Q5 Which HART or conventional transmitters condition should be checked when CC-PAIH01 reports an abnormal state?

Check the HART or conventional transmitters supply, seating and connection first, then compare channel diagnostics with the recorded CC-PAIH01 baseline.

Q7 What maintenance evidence is required after CC-PAIH01 is used for Process analog acquisition?

Retain the nameplate record, corrective action, final diagnostics and a controlled process analog acquisition functional-test result for CC-PAIH01.

Q2 How should CC-PAIH01 be wired when it must processes sixteen high-level analog channels?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for CC-PAIH01; then continuity-test the affected path.

Q4 What controlled test confirms that CC-PAIH01 can supports hart communication with connected field devices?

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-PAIH01 be moved directly into Multivariable flow measurement without validating Experion control and asset configuration?

No. Confirm the Experion control and asset configuration, revision, connection scheme and Experion Series-C I/O configuration before transferring CC-PAIH01 to that duty.

Q8 How should CC-PAIH01 be returned to service in Redundant analog-input renewal?

Restore power under control, verify provides four differential voltage-input positions, exercise the intended signal path and release CC-PAIH01 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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