

INDUSTRIAL AUTOMATION PRODUCT

CC-PAIH01

High-Level Analog Input Module with HART

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

IDENTITY	VERIFIED VALUE
Manufacturer	Honeywell
System family	Experion Series-C I/O
Part number	CC-PAIH01
Country	USA
HS code	8537101190

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Technical Specifications

Technical values below are limited to the named Honeywell product record.

PARAMETER	TECHNICAL 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
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

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System Role and Architecture

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

FUNCTION 1
Processes sixteen high-level analog channels

FUNCTION 2
Supports HART communication with connected field devices

FUNCTION 3
Provides four differential voltage-input positions

FUNCTION 4
Offers open-wire detection and loop diagnostics

Matched system components

- CC-TAIX01 or redundant CC-TAIX11 IOTA
- HART or conventional transmitters
- Series-C carrier
- Experion control and asset configuration

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	CC-TAIX01 or redundant CC-TAIX11 IOTA
Companion hardware	HART or conventional transmitters
Field connection	Series-C carrier
Primary system function	Processes sixteen high-level analog channels
Controlled acceptance duty	HART pressure-transmitter integration

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Applications and Engineering Context

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

TECHNICAL NOTE

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

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	CC-PAIH01 / CC-PAIH01 recorded
Physical interface	CC-TAIX01 or redundant CC-TAIX11 IOTA
Companion check	HART or conventional transmitters
Functional proof	Processes sixteen high-level analog channels
Application test	HART pressure-transmitter integration

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Engineering 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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
FC-QPP-0002-V1-0	Related industrial automation product	View FC-QPP-0002-V1-0 page
942-M0A-2D-1G1-220S	Related industrial automation product	View 942-M0A-2D-1G1-220S page
51401635-150	Related industrial automation product	View 51401635-150 page
51305381-500	Related industrial automation product	View 51305381-500 page
51202329-732	Related industrial automation product	View 51202329-732 page
CC-TDOB11	Related industrial automation product	View CC-TDOB11 page
CC-TCF901-51308301-175	Related industrial automation product	View CC-TCF901-51308301-175 page
CC-TAOX11	Related industrial automation product	View CC-TAOX11 page

MANUFACTURER SOURCE RECORD

Honeywell Experion Series-C I/O Specification

EP03-490-520, Release 520, Version 1.5

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