FIELD WORKFLOW

Honeywell CC-PAIH02 51405038-375

HART Analog Input Module

Honeywell CC-PAIH02 51405038-375 is a sixteen-channel Experion Series C high-level analog input module for current or voltage signals with HART communication and input diagnostics.

Release-gate sequence

1. IDENTIFY
2. ISOLATE
3. INSTALL
4. STATIC CHECK
5. FUNCTION TEST
6. ACCEPT

Before work starts

- Confirm CC-PAIH02 and 51405038-375 on the installed module.
- Record the selected standard, differential or isolated IOTA.
- Export ranges, scaling, HART assignments and alarm configuration.
- Identify current, voltage and differential wiring by channel.
- Capture instrument status and active HART communication paths.
- Prepare calibrated analog and HART test facilities.

Field record essentials

MODEL ID

Record CC-PAIH02 51405038-375 exactly.

SYSTEM

Experion Series C HART analog input

SETTINGS

Preserve the verified installed configuration.

TEST BASIS

Define static and functional acceptance evidence.

Pre-installation verification

CHECK 01

Confirm CC-PAIH02 and 51405038-375 on the installed module.

CHECK 02

Record the selected standard, differential or isolated IOTA.

CHECK 03

Export ranges, scaling, HART assignments and alarm configuration.

CHECK 04

Identify current, voltage and differential wiring by channel.

CHECK 05

Capture instrument status and active HART communication paths.

CHECK 06

Prepare calibrated analog and HART test facilities.

Interface inventory

- Transmitter input: Two-wire or self-powered current and voltage signals
- HART path: Configuration, status and multivariable instrument communication
- Differential termination: CC-TAID01 or CC-TAID11 for sixteen differential channels
- Isolated termination: CC-GAIX21 or CC-GAIX11 where internal isolation is required

Hold point

Do not continue if the complete model, field-circuit identity, stored settings, protective functions or safe isolation state cannot be verified. Preserve existing wiring records and escalate the exact unresolved item.

Installation sequence

1. Capture the module label, cabinet position and IOTA identity.
2. Place dependent control loops in the approved maintenance condition.
3. Isolate field energy and label polarity before disconnecting conductors.
4. Record jumper states used for voltage or differential input service.
5. Use grounded ESD controls while removing the Series C module.
6. Inspect the IOTA connector, terminal plugs and field-power circuits.
7. Restore wiring, jumpers and redundancy exactly as recorded.
8. Energize under control and review analog and HART diagnostics.

Commissioning and acceptance

GATE 1

Apply known current or voltage values to every serviced channel.

GATE 2

Compare calibrated inputs with controller engineering values.

GATE 3

Verify HART device identity, communication and status independently.

GATE 4

Check differential inputs against the stated common-mode boundary.

GATE 5

Prove open-wire behavior under an approved test arrangement.

GATE 6

Verify transmitter field power on channels that use it.

GATE 7

Check redundant IOTA operation when the installed design provides it.

GATE 8

Archive readings, HART state, diagnostics and as-left configuration.

Fault-response checks

- Analog value absent: inspect field power, polarity and IOTA seating.
- HART data absent: confirm device capability, loop continuity and channel setup.
- Voltage channel incorrect: inspect the load-resistor jumper and range selection.
- Differential input unstable: recheck common-mode voltage and shield grounding.
- Several channels fail: inspect common connector and termination hardware.
- Accuracy outside tolerance: compare an external calibrator before replacing the module.

Acceptance boundary

Release only after the normal state, commanded state, principal fault state and recovery behavior have all been observed at the field device, module and control-system indication.

Reference and handover

SOURCE 1 — Honeywell Experion Series-C I/O Specification EP03-490-520, Version 1.5, pages 6, 8-9 and 49

Related products

Verified related products on ApterPower

Honeywell CC-PAIH02 51405038-376
Series C HART input portfolio
View Honeywell CC-PAIH02 51405038-376

Honeywell 8C-TAIX51 51306979-175
Series 8 analog-input termination
View Honeywell 8C-TAIX51 51306979-175

Honeywell 8C-TAIX61 51306977-175
Redundant analog-input termination
View Honeywell 8C-TAIX61 51306977-175

CONFIGURATION
Final settings and mappings archived

WIRING
Terminal and conductor labels reconciled

TEST RECORD
Measured results and fault tests retained

OPERATIONS
Normal indication and response briefed

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Share the exact CC-PAIH02 51405038-375 nameplate, application and required quantity for a model-specific quotation.