

# Honeywell CC-PAOH01

HART Analog Output / Exact identity and technical profile

This reference isolates the exact published characteristics and engineering boundary of Honeywell CC-PAOH01 without borrowing values from a neighboring model.

|                          |              |
|--------------------------|--------------|
| <b>Exact model</b>       | CC-PAOH01    |
| <b>Spare part number</b> | 51405039-176 |
| <b>Output channels</b>   | 16           |
| <b>Output type</b>       | 4-20 mA      |
| <b>Communication</b>     | HART         |
| <b>Conversion</b>        | 16-bit       |

## TECHNICAL MARKER

16 output channels

## TECHNICAL MARKER

4-20 mA current output

## TECHNICAL MARKER

HART communication

## TECHNICAL MARKER

Optional module redundancy

## Technical boundary

The exact model and its published data govern this reference. Similar family names, suffixes or physical appearance do not establish the same electrical or software behavior.

|                               |                                                                                    |
|-------------------------------|------------------------------------------------------------------------------------|
| <b>Identity evidence</b>      | Read CC-PAOH01 from the installed label and procurement record                     |
| <b>Function evidence</b>      | Confirm the published hart analog output role in the Experion Series C I/O system  |
| <b>Configuration evidence</b> | Retain the project, mapping, range, address or interface assigned to this position |
| <b>Release evidence</b>       | Link final diagnostics to a witnessed field or operator response                   |

## TECHNICAL DECISION

Accept CC-PAOH01 only when its identifier and installed-system role agree.

## CHANGE BOUNDARY

Any redesign beyond the documented CC-PAOH01 position requires separate engineering approval.

# Honeywell CC-PAOH01

HART Analog Output / Published characteristics

This matrix groups the published CC-PAOH01 characteristics that control identification, configuration and engineering review. Each entry remains tied to the exact hart analog output record.

|                           |                                            |
|---------------------------|--------------------------------------------|
| <b>Exact model</b>        | CC-PAOH01                                  |
| <b>Spare part number</b>  | 51405039-176                               |
| <b>Output channels</b>    | 16                                         |
| <b>Output type</b>        | 4-20 mA                                    |
| <b>Communication</b>      | HART                                       |
| <b>Conversion</b>         | 16-bit                                     |
| <b>IOTA options</b>       | CC-TAOX01; CC-TAOX11; CC-GAOX11; CC-GAOX21 |
| <b>Redundancy</b>         | Optional                                   |
| <b>Diagnostics</b>        | Output readback and channel soft failures  |
| <b>Open-wire behavior</b> | Channel soft failure indication            |

## INTERPRETATION

Use every CC-PAOH01 value with the exact installed configuration.

## DESIGN RECORD

Retain the drawing, project and channel or interface assignments that make CC-PAOH01 data actionable.

|                        |                                                                           |
|------------------------|---------------------------------------------------------------------------|
| <b>Nameplate check</b> | Manufacturer and full reference agree with the controlled record          |
| <b>Range check</b>     | Published operating or signal data agree with the configured use          |
| <b>Interface check</b> | Backplane, terminal, cable, network or memory arrangement is documented   |
| <b>Limit check</b>     | Loading, channel count, supply or lifecycle constraint is reviewed        |
| <b>Evidence close</b>  | Source title and applicable product record are retained with the decision |

## NO BORROWED VALUES

Another Honeywell suffix cannot fill a missing CC-PAOH01 parameter.

## ENGINEERING OUTPUT

Record the exact value used, its purpose and any unresolved item before selection.

# Honeywell CC-PAOH01

HART Analog Output / System role and data flow

## Smart valve positioners

Commands valve position and supports HART device review.

## HART actuator diagnostics

Uses digital communication without interrupting the analog control loop.

## Drive reference loops

Provides controlled current references where HART output is specified.

## Redundant analog control

Uses the documented IOTA and module arrangement for availability.

## Signal and configuration path

|                         |                                                                               |
|-------------------------|-------------------------------------------------------------------------------|
| <b>Field layer</b>      | Sensors, loads, terminal or operator interface assigned by the design         |
| <b>Module layer</b>     | CC-PAOH01 performs its published hart analog output role                      |
| <b>Control layer</b>    | PLC project, address map or runtime application interprets the exchanged data |
| <b>Acceptance layer</b> | Diagnostics and intended process response are witnessed together              |

## Engineering boundary

Application examples describe system roles only. They do not establish automatic interchangeability, replacement approval or suffix equivalence.

|                                  |                                                                     |
|----------------------------------|---------------------------------------------------------------------|
| <b>Observed input</b>            | Field, network or operator condition presented to CC-PAOH01         |
| <b>Published action</b>          | The documented hart analog output function processes that condition |
| <b>Configured interpretation</b> | PLC logic, HMI project or station mapping assigns system meaning    |
| <b>Expected output</b>           | A defined state, value, message or command is produced              |
| <b>Acceptance proof</b>          | The complete path is witnessed under controlled conditions          |

## APPLICATION RECORD

Tie each CC-PAOH01 use case to the installed drawing or project tag.

## EXCEPTION CONTROL

Document and resolve any behavior that differs from the approved response.

# Honeywell CC-PAOH01

HART Analog Output / Engineering decisions

## SUPPORTED IDENTITY

CC-PAOH01

## PUBLISHED FUNCTION

HART Analog Output

## SYSTEM CONTEXT

Experion Series C I/O

## UNSUPPORTED INFERENCE

A nearby model, suffix or family resemblance

## Model-specific questions

### CC-PAOH01 51405039-176: how many HART output channels are provided?

The module provides 16 high-level analog-output channels.

### CC-PAOH01 51405039-176: which IOTA models are listed?

Honeywell lists CC-TAOX01, CC-TAOX11, CC-GAOX11 and CC-GAOX21 according to redundancy and isolation needs.

### CC-PAOH01 51405039-176: what indicates an open field wire?

The design reports an open-wire condition as a channel soft failure.

### CC-PAOH01 51405039-176: how is output direction proved?

Drive approved low, middle and high command values while observing loop current and final-element travel.

### CC-PAOH01 51405039-176: what analog signal is generated?

The published output type is 4-20 mA.

### CC-PAOH01 51405039-176: does it support module redundancy?

Yes. The Series C specification lists optional redundancy with the applicable IOTA arrangement.

### CC-PAOH01 51405039-176: what must be recorded before replacement?

Record loop tag, polarity, configured range, safe value, HART device identity and as-found output.

### CC-PAOH01 51405039-176: what completes commissioning?

Confirm analog accuracy, safe-state behavior, HART access, diagnostics and the intended final-element response.

## Decision closeout

Close the CC-PAOH01 technical review with the exact identifier, applicable published limits and the installed configuration assumptions explicitly recorded.

|                   |                                                                   |
|-------------------|-------------------------------------------------------------------|
| Question coverage | Identity, function, configuration and field handling addressed    |
| Open item         | Any unanswered exact-model point is listed without guessed data   |
| Decision owner    | Responsible engineering or maintenance role identified            |
| Supporting record | Drawing, project revision, readings and witnessed result attached |

## APPROVAL

The CC-PAOH01 decision is accepted only within the documented scope.

## REVIEW TRIGGER

A different suffix, wiring arrangement, project or application requires a new review.

# Honeywell CC-PAOH01

HART Analog Output / Evidence and support

|                        |                                                                  |
|------------------------|------------------------------------------------------------------|
| Exact product          | Honeywell CC-PAOH01                                              |
| Technical class        | HART Analog Output                                               |
| Platform               | Experion Series C I/O                                            |
| Evidence use           | Exact-model characteristics and engineering boundary             |
| Record with            | Installed drawing, project and acceptance evidence               |
| Retained evidence      | Nameplate, source title, configuration baseline and field record |
| Installation evidence  | Isolation, conductor/connector record and post-work inspection   |
| Commissioning evidence | Diagnostics, measurements and intended response                  |
| Final record           | Responsible witness, date, exceptions and approved disposition   |

## VERIFIED APTER POWER CATALOG REFERENCES

Navigation only; compatibility, substitution and manufacturer endorsement are not implied.

**Honeywell 8C-TDIL11 Redundant Series 8 SOE Digital Input IOTA** [View Honeywell 8C-TDIL11 Redundant Series 8 SOE Digital Input IOTA page](#)

**Honeywell 8C-TDIL01 Series 8 SOE Digital Input IOTA** [View Honeywell 8C-TDIL01 Series 8 SOE Digital Input IOTA page](#)

## MANUFACTURER EVIDENCE RECORD

### Honeywell Series C I/O Specification

EP03-490-520 Version 1.5

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Send the exact model, quantity, destination and requested condition for a quotation.

