PRODUCT INFORMATION DASHBOARD

# 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.

### PRODUCT ROLE

16 high-level analog input channels

### SYSTEM

Experion Series C HART analog input

### INTERFACE

HART-capable transmitter communication

### SERVICE FOCUS

50 ms input scan rate

## Exact-model highlights

- 16 high-level analog input channels
- HART-capable transmitter communication
- 16-bit analog conversion
- 50 ms input scan rate

## Release questions

### IDENTITY

Is the complete CC-PAIH02 51405038-375 code confirmed?

### INTERFACE

Do field signals and companion equipment match?

### SETTINGS

Are installed parameters and mappings preserved?

### ACCEPTANCE

Have normal, fault and recovery states been tested?

## Technical data

| | |
|---|---|
| **I/O function** | High-level analog input with HART |
| **Input channels** | 16; 12 single-ended and 4 differential with CC-TAIXx1 |
| **Input types** | Voltage and current |
| **Input ranges** | 0-5 V, 1-5 V, 0.4-2 V and 4-20 mA through 250 Ohm |
| **A/D resolution** | 16 bits |
| **Input scan rate** | 50 ms |
| **Common-mode rejection** | 70 dB, dc to 60 Hz |
| **Common-mode voltage** | -6 to +5 V peak |
| **Hardware accuracy** | +/-0.075% full scale at 23.5 +/-2 degrees C |
| **Compatible IOTAs** | CC-TAIX01/11, CC-GAIX21/11 and CC-TAID01/11 |

## Application safeguards

### SAFEGUARD 1

Match CC-PAIH02 and 51405038-375 to the installed module label before any replacement work.

### SAFEGUARD 2

Record the IOTA model because standard, differential and isolated terminations have different channel arrangements.

### SAFEGUARD 3

Capture input ranges, scaling, HART device assignments and alarm settings for all active channels.

### SAFEGUARD 4

Verify current-loop polarity and voltage-input jumpers before reconnecting field conductors.

## Common applications

### HART transmitter integration

Acquires the primary analog variable while carrying instrument configuration and status data.

### Mixed current and voltage service

Supports documented high-level current and voltage ranges within one Series C input family.

### Differential measurement wiring

Uses the CC-TAID IOTA option when sixteen differential inputs are required.

### Redundant analog input stations

Pairs with the matching redundant IOTA to support the installed Series C architecture.

## Interface checklist

- 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

## Installation snapshot

### STEP 1

Capture the module label, cabinet position and IOTA identity.

### STEP 2

Place dependent control loops in the approved maintenance condition.

### STEP 3

Isolate field energy and label polarity before disconnecting conductors.

### STEP 4

Record jumper states used for voltage or differential input service.

## Model-specific FAQ

**Q1 How many inputs does Honeywell CC-PAIH02 51405038-375 provide?**

It provides sixteen high-level analog input channels.

**Q2 Which signals can Honeywell CC-PAIH02 51405038-375 acquire?**

The module accepts current and voltage inputs from two-wire or self-powered transmitters.

**Q3 Does Honeywell CC-PAIH02 51405038-375 support HART devices?**

Yes. It supports HART-capable multivariable instruments and HART configuration and status communication.

**Q4 Which IOTA gives Honeywell CC-PAIH02 51405038-375 sixteen differential inputs?**

CC-TAID01 is the nonredundant differential IOTA and CC-TAID11 is the redundant version.

**Q5 What conversion resolution is used by Honeywell CC-PAIH02 51405038-375?**

The analog-to-digital converter resolution is 16 bits.

**Q6 What scan rate applies to Honeywell CC-PAIH02 51405038-375?**

The specified input scan rate is 50 ms.

**Q7 What common-mode voltage applies to Honeywell CC-PAIH02 51405038-375?**

The stated common-mode voltage range is -6 to +5 V peak from dc to 60 Hz.

**Q8 What should be commissioned after installing Honeywell CC-PAIH02 51405038-375?**

Check applied analog values, controller scaling, open-wire behavior, transmitter power and HART device communication on every serviced channel.

## Product precautions

1. Match CC-PAIH02 and 51405038-375 to the installed module label before any replacement work.
2. Record the IOTA model because standard, differential and isolated terminations have different channel arrangements.
3. Capture input ranges, scaling, HART device assignments and alarm settings for all active channels.
4. Verify current-loop polarity and voltage-input jumpers before reconnecting field conductors.
5. Keep differential inputs within the specified common-mode voltage boundary.
6. Use grounded ESD controls and protect the module and IOTA connectors during handling.
7. Restore redundant hardware only in the documented module and IOTA pairing for the installed release.
8. Commission analog accuracy, open-wire diagnostics and HART communication independently before return to service.

## Related products

### Verified related products on ApterPower

**Honeywell 8C-TAIDB1 51307133-175**
Differential analog-input termination
View Honeywell 8C-TAIDB1 51307133-175

**Honeywell 8C-PDILA1**
Series 8 input portfolio
View Honeywell 8C-PDILA1

**Honeywell CC-PAIL51**
Series C temperature-input portfolio
View Honeywell CC-PAIL51

## Contact Apter Power

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