PRODUCT INFORMATION DASHBOARD

Honeywell CC-PAIX01 51405038-275

High-Level Analog Input Module

Honeywell CC-PAIX01 51405038-275 is a sixteen-channel Experion Series C high-level analog input module for current and voltage signals without HART communication.

PRODUCT ROLE

16 high-level analog input channels

SYSTEM

Experion Series C high-level analog input

INTERFACE

Current and voltage input support

SERVICE FOCUS

Nonredundant or redundant IOTA pairing

Exact-model highlights

- 16 high-level analog input channels
- Current and voltage input support
- 50 ms input scan rate
- Nonredundant or redundant IOTA pairing

Release questions

IDENTITY

Is the complete CC-PAIX01 51405038-275 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 without HART
Input channels	16
Supported signal classes	Current and voltage
Current range	4-20 mA through 250 Ohm
Voltage ranges	0-5 V, 1-5 V and 0.4-2 V
A/D resolution	16 bits
Input scan rate	50 ms
Common-mode rejection	70 dB, dc to 60 Hz
Input impedance	Greater than 10 MOhm for powered voltage inputs
Compatible IOTAs	CC-TAIX01, CC-TAIX11, CC-GAIX21 and CC-GAIX11

Application safeguards

SAFEGUARD 1

Match CC-PAIX01 and 51405038-275 to the installed module label before removing any channel wiring.

SAFEGUARD 2

Record the active IOTA model and whether the installation is nonredundant, redundant or galvanically isolated.

SAFEGUARD 3

Capture every channel range, scaling value and transmitter power arrangement before isolation.

SAFEGUARD 4

Separate current-loop wiring from voltage-input wiring and retain the original polarity for each conductor.

Common applications

Process transmitter acquisition

Collects 4-20 mA values from pressure, flow, level and other field transmitters.

Voltage-signal monitoring

Accepts supported high-level voltage ranges through the applicable termination arrangement.

Redundant cabinet input

Pairs with a redundant IOTA when the installed Series C architecture requires redundant termination.

Differential input service

Supports differential wiring on the documented channel group with the matching IOTA configuration.

Interface checklist

- Field signals: High-level current or voltage from two-wire and self-powered transmitters
- Standard termination: CC-TAIX01 nonredundant or CC-TAIX11 redundant IOTA
- Isolated termination: CC-GAIX21 nonredundant or CC-GAIX11 redundant IOTA
- Controller data path: Series C input values with module self-diagnostics and fast-loop scanning

Installation snapshot

STEP 1

Capture the module label, cabinet position and IOTA identity.

STEP 2

Back up channel configuration and compare it with the approved I/O schedule.

STEP 3

Isolate field energy and label conductor polarity before disconnection.

STEP 4

Separate current-loop and voltage-input terminations during removal.

Model-specific FAQ

Q1 How many channels does Honeywell CC-PAIX01 51405038-275 provide?

It provides sixteen high-level analog input channels.

Q2 Which signal types can Honeywell CC-PAIX01 51405038-275 accept?

The module supports high-level current and voltage inputs from two-wire or self-powered transmitters.

Q3 Does Honeywell CC-PAIX01 51405038-275 provide HART communication?

No. CC-PAIX01 is the non-HART high-level analog input member of the Series C family.

Q4 Which current range is used by Honeywell CC-PAIX01 51405038-275?

The documented current input is 4-20 mA through a 250 Ohm input path.

Q5 Which IOTAs pair with Honeywell CC-PAIX01 51405038-275?

The supported combinations include CC-TAIX01 or CC-TAIX11 and the CC-GAIX21 or CC-GAIX11 isolated alternatives.

Q6 What conversion resolution applies to Honeywell CC-PAIX01 51405038-275?

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

Q7 What scan rate applies to Honeywell CC-PAIX01 51405038-275?

The input scan rate is 50 ms.

Q8 How should Honeywell CC-PAIX01 51405038-275 be checked after replacement?

Apply known signals to the serviced channels, compare controller values with the test source, and verify module and channel diagnostics before release.

Product precautions

1. Match CC-PAIX01 and 51405038-275 to the installed module label before removing any channel wiring.
2. Record the active IOTA model and whether the installation is nonredundant, redundant or galvanically isolated.
3. Capture every channel range, scaling value and transmitter power arrangement before isolation.
4. Separate current-loop wiring from voltage-input wiring and retain the original polarity for each conductor.
5. Do not expect HART communication from this non-HART analog input module.
6. Keep differential channels within the stated common-mode boundary and inspect any required IOTA jumpers.
7. Use grounded ESD controls while handling the module and protect the IOTA connector from contamination.
8. Commission each serviced channel with known current or voltage inputs and compare the controller value with the applied signal.

Related products

Verified related products on ApterPower

Honeywell CC-TAID11
Differential analog-input termination
View Honeywell CC-TAID11

Honeywell DC-TAIX01
Analog-input termination portfolio
View Honeywell DC-TAIX01

Honeywell CC-TAIX61 51307077-175
Redundant analog-input portfolio
View Honeywell CC-TAIX61 51307077-175

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Share the exact CC-PAIX01 51405038-275 nameplate, application and required quantity for a model-specific quotation.