

Apter Power CC-PAIM01

Installation, Application and Verification Guide

A field guide for applying and verifying the Honeywell CC-PAIM01 Series-C low-level analog temperature-input multiplexer for thermocouple and RTD measurements.

1. Product identity and application

Product role	Low-level analog temperature-input multiplexer
Platform	Honeywell Experion Series-C I/O
Measurement context	Thermocouple and RTD temperature inputs
Service focus	Sensor wiring, channel configuration and measurement verification

2. Pre-installation review

- Confirm CC-PAIM01 and the complete assembly marking.
- Review the configured sensor type, range, units and channel assignment.
- Match terminal hardware, sensor leads, shielding and grounding to the project drawing.
- Record the existing temperature indication and diagnostic state before replacement.
- Apply isolation and ESD controls suitable for low-level measurement circuits.

Important

Use the exact installed-system documentation and the applicable Honeywell instructions. Do not transfer wiring, configuration or ratings from a similar model.

3. Installation and application workflow

1	Record channel configuration, sensor type, lead identification and shield termination.
2	Inspect module interfaces and termination hardware for damage, corrosion or loose contacts.
3	Install CC-PAIM01 in the documented Series-C location using the approved procedure.
4	Reconnect sensor wiring exactly as shown in the channel and cabinet documentation.
5	Restore the system and verify measurement stability, diagnostics, alarms and control use.

4. Commissioning and verification record

Check	Acceptance point	Record
Identity	CC-PAIM01 marking and installed-system location are correct.	Pass / Review
Sensor	Configured thermocouple or RTD type matches the connected sensor.	Pass / Review
Wiring	Lead arrangement, polarity where applicable, shielding and grounding are correct.	Pass / Review
Measurement	Indicated temperature is stable and reasonable for the process condition.	Pass / Review
Functional	Diagnostics, alarms and dependent control functions are accepted.	Pass / Review

Record equipment identity, technician, date, control-system status and any corrective action in the site maintenance system before closing the work order.

5. Product-specific precautions

1

Do not copy a sensor configuration from a channel with a different thermocouple or RTD type.

2

Protect low-level input wiring from unintended grounding and electrical noise.

3

Maintain sensor polarity and lead identification where the measurement method requires it.

4

Do not disturb unrelated shield or reference connections during replacement.

5

Use ESD controls when handling the module and termination interfaces.

6

Confirm engineering units and configured range before accepting the measurement.

7

Check alarms and control actions after the temperature input returns to service.

8

Record final readings, diagnostic status and any configuration changes.

6. Official manufacturer sources

[Honeywell Experion Series-C I/O Specification](#)

prod-edam.honeywell.com

[Honeywell Series-C I/O User's Guide](#)

prod-edam.honeywell.com

Prepared by Apter Power for product identification, installation planning and verification. Always use the current project documentation and the applicable Honeywell instructions for the installed system.

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