

INDUSTRIAL AUTOMATION PRODUCT

8C-TAIMA1 51307171-175

8C-TAIMA1 Thermocouple/RTD IOTA

Honeywell 8C-TAIMA1 51307171-175 is the 8C-TAIMA1 Thermocouple/RTD IOTA used for field termination for thermocouple and RTD temperature inputs in a documented Honeywell Experion Series 8 I/O installation. Confirm the complete identity and installed system configuration before replacement.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	Honeywell
System family	Honeywell Experion Series 8 I/O
Part number	8C-TAIMA1 51307171-175
Document status	Controlled product and system reference

DOCUMENT SCOPE

Exact article identity, official technical data, host matching, installation checks, applications, precautions and controlled acceptance evidence.

MODEL-SPECIFIC ENGINEERING NOTE

Install 8C-TAIMA1 51307171-175 only in its documented Honeywell Experion Series 8 I/O position. Preserve the exact interfaces, wiring and configuration, then verify diagnostics and field termination for thermocouple and RTD temperature inputs under controlled conditions.

System Role and Architecture

Honeywell 8C-TAIMA1 51307171-175 is the 8C-TAIMA1 Thermocouple/RTD IOTA used for field termination for thermocouple and RTD temperature inputs in a documented Honeywell Experion Series 8 I/O installation. Confirm the complete identity and installed system configuration before replacement.

FUNCTION 1
Input family: Thermocouple and RTD

FUNCTION 2
Channels: 16 isolated input positions

FUNCTION 3
Execution: Coated

FUNCTION 4
Associated IOM: 8C-PAIMA1

RELATED APTER POWER PAGES		
1 Honeywell 8C-PAOH51 51454355-175	2 Honeywell 8C-TAOXA1 51307135-175	3 Honeywell 8C-TDILA1 51307141-175
4 Honeywell 51401496-100	5 Honeywell 51401642-150	6 Honeywell 621-2200RC
7 Honeywell MC-PAOX03 51309152-175	8 Honeywell MC-TAIH12 51304337-150	9 Honeywell MC-TAOX12 51304335-175

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	Honeywell Experion Series 8 I/O
02	Matched Honeywell Experion Series 8 I/O host and field interface
03	Documented power, signal, communication and grounding connections
04	Approved configuration, diagnostics and acceptance record

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	Honeywell Experion Series 8 I/O
Interface role	field termination for thermocouple and RTD temperature inputs
Field / power context	documented Honeywell Experion Series 8 I/O installed position
Commissioning evidence	Identity, wiring, configuration, diagnostics and controlled response recorded

INSTALLATION AND CONNECTION CHECKS

- 1

Confirm the complete 8C-TAIMA1 51307171-175 identity on the hardware and maintenance record.
- 2
- Place the affected Honeywell Experion Series 8 I/O process in the approved maintenance state.
- 3
- Record the installed position, connectors, terminals, wiring and configuration before removal.

4

Technical Specifications

Technical values below are limited to the named product record and directly applicable manufacturer documentation.

PARAMETER	VALUE	PARAMETER	VALUE
Product type	Thermocouple/RTD I/O Termination Assembly	Channels	16 isolated input positions
IOTA model	8C-TAIMA1	Execution	Coated
Manufacturer item number	51307171-175	Associated IOM	8C-PAIMA1
Input family	Thermocouple and RTD	Installation family	Experion Series 8 I/O

RELATED PRODUCT PAGES

1 Honeywell 8C-PAOH51 51454355-175

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7 Honeywell MC-PAOX03 51309152-175

8 Honeywell MC-TAIH12 51304337-150

9 Honeywell MC-TAOX12 51304335-175

ENGINEERING BOUNDARY

Confirm 8C-TAIMA1 51307171-175, its exact host, installed position, interfaces, configuration, diagnostics and controlled acceptance evidence before release.

PRE-INSTALLATION CHECKS

- 1

Confirm the complete 8C-TAIMA1 51307171-175 identity on the hardware and maintenance record.
- 2

Place the affected Honeywell Experion Series 8 I/O process in the approved maintenance state.
- 3

Record the installed position, connectors, terminals, wiring and configuration before removal.
- 4

Isolate all documented power and field energy and apply ESD controls where required.

Applications and Engineering Context

8C-TAIMA1 Thermocouple/RTD IOTA

Provides field termination for thermocouple and RTD temperature inputs in the approved Honeywell Experion Series 8 I/O architecture.

Installed-system maintenance

Preserves the documented slot, termination, wiring and configuration during replacement.

Controlled commissioning

Restores power and signals in the approved sequence and reviews diagnostics.

Acceptance verification

Confirms the intended channel, network or safety function before release.

TECHNICAL NOTE

Install 8C-TAIMA1 51307171-175 only in its documented Honeywell Experion Series 8 I/O position. Preserve the exact interfaces, wiring and configuration, then verify diagnostics and field termination for thermocouple and RTD temperature inputs under controlled conditions.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	8C-TAIMA1 51307171-175 recorded
Host / carrier	Honeywell Experion Series 8 I/O
Physical interface	Installed terminals, ports and signals matched to the as-found record
Configuration	Approved Honeywell hardware and system configuration restored
Functional proof	Controlled test confirms field termination for thermocouple and RTD temperature inputs

IMPORTANT NOTICE

Confirm 8C-TAIMA1 51307171-175, its exact host, installed position, interfaces, configuration, diagnostics and controlled acceptance evidence before release.

Related Products and Source Record

Brand-qualified Apter Power navigation links are provided for system planning only; manufacturer evidence remains the named source record.

RELATED PRODUCTS ON APTER POWER

1

Honeywell 8C-PAOH51 51454355-175

View Honeywell 8C-PAOH51 51454355-175 page

2

Honeywell 8C-TAOXA1 51307135-175

View Honeywell 8C-TAOXA1 51307135-175 page

3

Honeywell 8C-TDILA1 51307141-175

View Honeywell 8C-TDILA1 51307141-175 page

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Honeywell 51401496-100

View Honeywell 51401496-100 page

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Honeywell 51401642-150

View Honeywell 51401642-150 page

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Honeywell 621-2200RC

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Honeywell MC-PAOX03 51309152-175

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Honeywell MC-TAIH12 51304337-150

View Honeywell MC-TAIH12 51304337-150 page

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Honeywell MC-TAOX12 51304335-175

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MANUFACTURER SOURCE RECORD

Honeywell Experion Series 8 I/O Specification | Honeywell manufacturer publication

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RECOMMENDATION SCOPE

These links support product navigation and comparison. Technical values in this document are sourced only from the manufacturer record above.