

8C-TAIMA1 51307171-175

8C-TAIMA1 Thermocouple/RTD IOTA

8C-TAIMA1 Thermocouple/RTD IOTA

PRODUCT SNAPSHOT

BRAND
Honeywell

FAMILY
Honeywell Experion Series 8 I/O

PART
8C-TAIMA1 51307171-175

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

WHATSAPP / PHONE

+86 180 3023 5313

WEBSITE

www.apterpower.com



PRODUCT OVERVIEW

Honeywell 8C-TAIMA1 51307171-175 provides field termination for thermocouple and RTD temperature inputs in a documented Honeywell Experion Series 8 I/O installation.



Input family: Thermocouple and RTD



Channels: 16 isolated input positions



Execution: Coated



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

SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
Proximity probe	Matched extension cable
Proximitor Sensor	AISI 4140 target

ENGINEERING CONTEXT

The component remains matched to its installed host, interface hardware and engineering configuration. Commissioning restores that architecture and verifies the intended function under controlled conditions.

TECHNICAL DATA

PARAMETER	VALUE
Product type	Thermocouple/RTD I/O Termination Assembly
IOTA model	8C-TAIMA1
Manufacturer item number	51307171-175
Input family	Thermocouple and RTD

PARAMETER	VALUE
Channels	16 isolated input positions
Execution	Coated
Associated IOM	8C-PAIMA1
Installation family	Experion Series 8 I/O

RELATED PRODUCT 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

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.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

8C-TAIMA1 Thermocouple/RTD IOTA

Provides field termination for thermocouple and RTD temperature inputs in the approved Honeywell

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.

PRODUCT PRECAUTIONS

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.

5

Inspect the replacement identity, revision, interfaces and mating hardware before installation.

6

Restore every conductor, cable, power path and configuration value to the approved record.

7

Review host, module, channel or network diagnostics after controlled energization.

8

Perform a controlled test that proves field termination for thermocouple and RTD temperature inputs before

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

ENGINEER FAQ

Q1

Which sensors connect to 8C-TAIMA1 51307171-175?

It provides the field termination for thermocouple and RTD inputs.

Q2

How many temperature-input positions are associated with 8C-TAIMA1 51307171-175?

The matched Series 8 arrangement provides sixteen isolated input positions.

Q3

Which I/O module pairs with 8C-TAIMA1 51307171-175?

It pairs with the 8C-PAIMA1 temperature-input IOM.

Q4

Is 8C-TAIMA1 51307171-175 coated?

Yes. The 8C execution is coated.

Q5

Why must sensor type be recorded before replacing 8C-TAIMA1 51307171-175?

Each channel's TC or RTD selection, range and wiring determine the correct measurement path.

Q6

Which wiring details matter most on 8C-TAIMA1 51307171-175?

Record channel assignment, sensor type, polarity or lead arrangement, shield and cold-junction context.

Q7

Can a current-input IOTA be substituted for 8C-TAIMA1 51307171-175?

No. The IOTA must match the thermocouple/RTD IOM and its terminal architecture.

Q8

What should the commissioning record show for 8C-TAIMA1 51307171-175?

It should show stable reference checks on every assigned temperature channel and clear module diagnostics.

RELATED APTER POWER PAGES

1Honeywell 8C-PAOH51 51454355-175

2Honeywell 8C-TAOXA1 51307135-175

3Honeywell 8C-TDILA1 51307141-175

4Honeywell 51401496-100

5Honeywell 51401642-150

6Honeywell 621-2200RC

7Honeywell MC-PAOX03 51309152-175

8Honeywell MC-TAIH12 51304337-150

9Honeywell MC-TAOX12 51304335-175