

8C-PAOH51 51454355-175

8C-PAOH51 HART Analog Output Module

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PRODUCT SNAPSHOT

BRAND
Honeywell

FAMILY
Honeywell Experion Series 8 I/O

PART
8C-PAOH51 51454355-175

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

WHATSAPP / PHONE

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WEBSITE

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PRODUCT OVERVIEW

Honeywell 8C-PAOH51 51454355-175 provides generation and supervision of sixteen HART-capable 4-20 mA analog outputs in a documented Honeywell Experion Series 8 I/O installation.

Channels: 16

Output range: 4-20 mA

Communication: HART

Redundancy: Optional

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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	PARAMETER	VALUE
Product type	HART analog output module	Communication	HART
IOM model	8C-PAOH51	Redundancy	Optional
Manufacturer item number	51454355-175	FAILOPT	Hold last value or shed to safe value per channel
Channels	16	Diagnostics	Output readback and open-wire detection
Output range	4-20 mA	Execution	Coated

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TECHNICAL NOTE

Install 8C-PAOH51 51454355-175 only in its documented Honeywell Experion Series 8 I/O position. Preserve the exact interfaces, wiring and configuration, then verify diagnostics and generation and supervision of sixteen HART-capable 4-20 mA analog outputs under controlled conditions.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

8C-PAOH51 HART Analog Output Module

Provides generation and supervision of sixteen HART-capable 4-20 mA analog outputs in the

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-PAOH51 51454355-175 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 generation and supervision of sixteen HART-capable 4-20 mA analog

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ENGINEER FAQ

Q1

How many HART outputs does 8C-PAOH51 51454355-175 provide?

It provides sixteen analog output channels.

Q2

Which current range is used by 8C-PAOH51 51454355-175?

The process outputs operate in the 4-20 mA range.

Q3

What communication is available on 8C-PAOH51 51454355-175 loops?

The channels support HART communication with compatible instruments.

Q4

How can each 8C-PAOH51 51454355-175 channel respond to a configured failure?

FAILOPT can hold the last value or shed the channel to a safe value.

Q5

Which wiring fault can 8C-PAOH51 51454355-175 detect?

The module can report an open field wire.

Q6

Can 8C-PAOH51 51454355-175 be installed redundantly?

Yes, with the approved redundant IOTA and matched peer-module configuration.

Q7

What should be copied before changing 8C-PAOH51 51454355-175?

Record channel ranges, HART device assignments, FAILOPT values, loads and redundancy state.

Q8

What commissioning evidence is needed for 8C-PAOH51 51454355-175?

Measure every output, verify HART communication and fail behavior, and clear readback and open-wire diagnostics.

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

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