

Installation Identity and Scope

Honeywell 8C-TAOX51 is the coated non-redundant IOTA for a sixteen-channel Series 8 analog output module. With 8C-PAON01 it delivers 4-20 mA commands and supports channel-level safe-state behavior and open-wire detection.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	8C-TAOX51
Manufacturer	Honeywell
Hardware type	Analog Output IOTA
System family	Series 8 I/O
Official source	PC03-490-100, Release 100, October 2011, section 2.4 Analog Output

CONTROLLED ENGINEERING COPY

Use 8C-TAOX51 with the documented 8C-PAON01 analog output module. Record every output assignment, configured FAILOPT action, safe value and field response before disturbing wiring, then verify open-wire diagnostics and each commanded output.

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8C-TAOX51

Pre-Installation Plan

NO.	REQUIRED ACTION
1	Verify the complete 8C-TAOX51 and 51306983-175 marking before work.
2	Confirm the associated I/O module is the documented Honeywell 8C-PAON01.
3	Place all affected final elements and process loops in approved safe states.
4	Record all sixteen output assignments, scaling values and direction of action.
5	Record the FAILOPT choice and configured safe value for every enabled channel.

Matched Hardware

CONTROL ITEM	REQUIRED RECORD
Identity	8C-TAOX51
Physical interface	Documented Series 8 IOTA position and keyed IOM interface
Companion check	Approved 8C-PAON01 companion module and field termination
Configuration	Saved channel map, signal configuration, diagnostics and maintenance record
Functional proof	Every enabled channel, module diagnostic and controlled system response

Related Honeywell Products

MODEL	APTER POWER PAGE
Honeywell FC-TCNT11	View Honeywell FC-TCNT11
Honeywell FC-TELD-0001	View Honeywell FC-TELD-0001
Honeywell FC-TSAI-1620M	View Honeywell FC-TSAI-1620M
Honeywell FC-TSDO-0824	View Honeywell FC-TSDO-0824
Honeywell FC-TSFIRE-1624	View Honeywell FC-TSFIRE-1624

Wiring and Interface Checks

CHECK	MODEL-SPECIFIC REQUIREMENT
Identity	Record Honeywell 8C-TAOX51 and item 51306983-175 exactly.
Companion module	Confirm the documented 8C-PAON01 analog output module.
IOTA arrangement	Confirm the non-redundant coated IOTA position.
Channel map	Preserve all sixteen 4-20 mA output and final-element assignments.
Safe states	Restore every FAILOPT choice and configured safe value.
Functional proof	Verify commanded current, final-element response and open-wire diagnostics.

CONFIGURATION BOUNDARY

Use 8C-TAOX51 with the documented 8C-PAON01 analog output module. Record every output assignment, configured FAILOPT action, safe value and field response before disturbing wiring, then verify open-wire diagnostics and each commanded output.

Expected Technical Values

PARAMETER	VALUE
Complete model	8C-TAOX51
Honeywell item number	51306983-175
IOTA role	Coated non-redundant analog output termination assembly
Compatible I/O module	8C-PAON01

Related Honeywell Products

MODEL	APTER POWER PAGE
Honeywell FC-TSGAS-1624	View Honeywell FC-TSGAS-1624
Honeywell FC-TSRO-0824	View Honeywell FC-TSRO-0824

Commissioning and Acceptance

TEST	ACCEPTANCE CONDITION
Identity	Exact 8C-TAOX51 and 8C-PAON01 pairing match the engineering record.
Configuration	All output assignments, scaling and FAILOPT values are restored.
Output check	Each commanded current and final-element response meets its approved record.
System proof	The non-redundant path and open-wire diagnostics pass.

Model-Specific Questions

QUESTION	ENGINEERING ANSWER
Which module is paired with Honeywell 8C-TAOX51?	Honeywell specifies 8C-TAOX51 as the coated non-redundant IOTA for the 8C-PAON01 analog output module.
How many outputs does Honeywell 8C-TAOX51 terminate?	The official specification lists sixteen analog output channels.
Which output range is used by Honeywell 8C-TAOX51?	The documented output type is 4-20 mA, with direct setting at 0 mA or from 2.9 to 21.1 mA.
What FAILOPT choices apply to Honeywell 8C-TAOX51?	Each channel can be configured to HOLD LAST VALUE or SHED to a SAFE VALUE.

Related Honeywell Products

MODEL	APTER POWER PAGE
Honeywell FC-UGAI01	View Honeywell FC-UGAI01
Honeywell FC-USI-0001	View Honeywell FC-USI-0001
Honeywell FC-USI-0001-V1-3	View Honeywell FC-USI-0001-V1-3
Honeywell FC-USI-0002	View Honeywell FC-USI-0002
Honeywell MC-IOLX02	View Honeywell MC-IOLX02

FAQ, Source and Controlled Release

QUESTION	ENGINEERING ANSWER
How quickly does Honeywell 8C-TAOX51 respond to a new command?	The analog output settles to within one percent of its final value within 80 ms.
How does Honeywell 8C-TAOX51 report an open field wire?	The Series 8 output function annunciates a Channel Soft Failure for the affected open-wire condition.
Is Honeywell 8C-TAOX51 the redundant output IOTA?	No. Honeywell identifies 8C-TAOX51 as non-redundant; 8C-TAOX61 is the redundant coated IOTA.
What proves Honeywell 8C-TAOX51 commissioning is complete?	All sixteen assignments, commanded currents, FAILOPT actions, final-element responses and open-wire diagnostics must match the approved record.

MANUFACTURER SOURCE RECORDS

PlantCruise by Experion Series 8 I/O Specification - PC03-490-100, Release 100, October 2011, section 2.4 Analog Output
Series 8 Controller and I/O Specification - S803-150-530, Version 1.0, May 2024, Series 8 architecture and I/O overview

Controlled Release Summary

RELEASE ITEM	REQUIRED EVIDENCE
Identity	8C-TAOX51 recorded
Interface	Connections and companion hardware verified
Configuration	Installed values agree with approved record
Functional proof	Controlled test completed without unexplained fault

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