

8C-TAIX51

Analog Input IOTA

Honeywell 8C-TAIX51 is the coated non-redundant IOTA for a sixteen-channel Series 8 analog input module. It terminates 4-20 mA signals from 2-wire or self-powered transmitters for the documented 8C-PAIN01 arrangement.

IDENTITY	VERIFIED VALUE
Manufacturer	Honeywell
Complete model	8C-TAIX51
Product role	Analog Input IOTA
System family	Series 8 I/O
Source record	PC03-490-100, Release 100, October 2011, section 2.2 Analog Input

DOCUMENT SCOPE

Model identity, official technical data, model-specific applications, precautions, FAQ and controlled acceptance records.

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8C-TAIX51

Technical Specifications

PARAMETER	VERIFIED VALUE
Complete model	8C-TAIX51
Honeywell item number	51306979-175
IOTA role	Coated non-redundant analog input termination assembly
Compatible I/O module	8C-PAIN01
Input type	Current; 2-wire or self-powered transmitters
Input channels	16 single-ended channels
A/D resolution	16 bits
Input range	4-20 mA through 200 ohms
Input scan rate	50 ms
Normal-mode rejection	19 dB at 60 Hz
Normal-mode filter	Single-pole RC, -3 dB at 6.5 Hz
Channel crosstalk	-60 dB, dc to 60 Hz
Maximum input voltage	+/-30 V referenced to common without damage

ENGINEERING BOUNDARY

Use 8C-TAIX51 only in the documented non-redundant analog input position with 8C-PAIN01. Preserve channel wiring, loop power, shield and common assignments, then verify range, scan response and diagnostics for all enabled channels.

System Role and Common Applications

Honeywell 8C-TAIX51 is the coated non-redundant IOTA for a sixteen-channel Series 8 analog input module. It terminates 4-20 mA signals from 2-wire or self-powered transmitters for the documented 8C-PAIN01 arrangement.

FUNCTION 1
Sixteen single-ended current inputs

FUNCTION 2
4-20 mA transmitter interface

FUNCTION 3
Coated non-redundant IOTA

FUNCTION 4
Fast 50 ms input scan

APPLICATION	ENGINEERING CONTEXT
Process transmitter input	Terminates sixteen approved 4-20 mA process transmitters for the compatible Series 8 analog input module.
Self-powered sensor input	Accepts documented current signals from self-powered transmitters within the approved channel arrangement.
Non-redundant loop acquisition	Provides the coated non-redundant IOTA path for standard Series 8 analog measurement.
Fast process monitoring	Supports the documented 50 ms scan response for configured analog loops.

ACCEPTANCE DUTY
Confirm identity, interface, companion hardware, configured values and controlled functional response before release.

Engineering Precautions and FAQ

NO.	PRECAUTION
1	Verify the complete 8C-TAIX51 and 51306979-175 marking before work.
2	Confirm the associated I/O module is the documented Honeywell 8C-PAIN01.
3	Place all affected process loops in the approved maintenance state.
4	Record all sixteen single-ended channel assignments and loop-power sources.
5	Label signal, common, shield and grounding conductors before removal.
6	Keep each applied signal within the documented 4-20 mA input arrangement.
7	Use approved ESD controls and inspect the non-redundant IOTA and module interfaces.
8	Verify every enabled input, scan response and diagnostic indication before release.

QUESTION	ANSWER
Which module is paired with Honeywell 8C-TAIX51?	Honeywell specifies 8C-TAIX51 as the coated non-redundant IOTA for the 8C-PAIN01 analog input module.
How many channels does Honeywell 8C-TAIX51 terminate?	The official specification lists sixteen single-ended analog input channels.
Which signal range is specified for Honeywell 8C-TAIX51?	The documented input range is 4-20 mA through 200 ohms.
Which transmitter types can Honeywell 8C-TAIX51 receive?	The arrangement accepts current inputs from 2-wire or self-powered transmitters.

FAQ, Related Products and Official Sources

QUESTION	ANSWER
What conversion resolution applies to Honeywell 8C-TAIX51?	The compatible analog input module uses a 16-bit A/D converter.
What scan rate applies to Honeywell 8C-TAIX51?	The Honeywell specification lists a 50 ms input scan rate.
Is Honeywell 8C-TAIX51 the redundant IOTA?	No. Honeywell identifies 8C-TAIX51 as the coated non-redundant IOTA; 8C-TAIX61 is the redundant version in the same documented family.
What proves Honeywell 8C-TAIX51 commissioning is complete?	The 8C-PAIN01 pairing, all sixteen loop assignments, 4-20 mA responses and diagnostics must agree with the approved record.

MODEL	APTER POWER PAGE
Honeywell CC-TSP411-51306669-175	View Honeywell CC-TSP411-51306669-175
Honeywell CC-TUIO31	View Honeywell CC-TUIO31
Honeywell CC-ZHR041	View Honeywell CC-ZHR041
Honeywell 8C-IP0102-51454362-275	View Honeywell 8C-IP0102-51454362-275
Honeywell 8C-PAIMA1-51454473-175	View Honeywell 8C-PAIMA1-51454473-175
Honeywell 8C-PAINA1-51454470-175	View Honeywell 8C-PAINA1-51454470-175
Honeywell FC-BKM-0001-V1-1	View Honeywell FC-BKM-0001-V1-1
Honeywell FC-CPCHAS-0001	View Honeywell FC-CPCHAS-0001

MANUFACTURER SOURCE RECORDS

PlantCruise by Experion Series 8 I/O Specification - PC03-490-100, Release 100, October 2011, section 2.2 Analog Input
Series 8 Controller and I/O Specification - S803-150-530, Version 1.0, May 2024, Series 8 architecture and I/O overview

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