

TC-HAO081

Eight-Point HART Analog Output Module

Honeywell TC-HAO081 is an eight-point CIOM-A HART analog output module. It sends analog control signals and HART communication to smart final elements in a C200 system.

PRODUCT SNAPSHOT

BRAND

Honeywell

FAMILY

Experion C200 ControlNet I/O

PART

TC-HAO081

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PRODUCT OVERVIEW

Honeywell TC-HAO081 is an eight-point CIOM-A HART analog output module. It sends analog control signals and HART communication to smart final elements in a C200 system.

1

Generates HART-enabled analog commands

2

Carries analog commands and HART data

3

Fits a C200 I/O chassis

4

Interfaces smart final elements

SYSTEM COMPONENTS

C200 I/O chassis

ControlNet I/O adapter

HART field wiring

Smart valve positioner

TECHNICAL DATA

PARAMETER	VALUE
Output points	8
Signal function	HART analog output

PARAMETER	VALUE
Module family	CIOM-A

APTER POWER

TECHNICAL NOTE

Secure the process output, preserve channel polarity and HART addressing, then test analog stroke and digital device communication independently.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

HART valve positioning

Generates HART-enabled analog commands

Smart actuator diagnostics

Carries analog commands and HART data

Drive reference control

Fits a C200 I/O chassis

C200 output-loop modernization

Interfaces smart final elements

PRODUCT PRECAUTIONS

- 1 Verify the complete TC-HAO081 marking and the assigned Experion C200 ControlNet I/O position before field work.
- 2 Isolate the applicable power, network and field energy before disconnecting TC-HAO081.
- 3 Use ESD controls and protect the keyed connectors of TC-HAO081 during handling.
- 4 Record the installed wiring, jumpers, node or channel assignment before replacement.
- 5 Confirm C200 I/O chassis and ControlNet I/O adapter against the approved system configuration.
- 6 Restore TC-HAO081 under controlled conditions and review the product-specific diagnostics.
- 7 Complete a functional test for hart valve positioning before production release.

ENGINEER FAQ

Q1 Which C200 I/O chassis identity must be verified before fitting the TC-HAO081 Eight-Point HART Analog Output Module?

Match the complete TC-HAO081 marking, assigned Experion C200 ControlNet I/O position and installed C200 I/O chassis before work.

Q2 How should ControlNet I/O adapter be isolated before disconnecting the TC-HAO081 Eight-Point HART Analog Output Module?

Place the affected process in its approved maintenance state, isolate applicable energy and prove ControlNet I/O adapter safe before disconnection.

Q3 What as-found wiring record is required for the TC-HAO081 Eight-Point HART Analog Output Module in HART valve positioning?

Record terminal identity, polarity, shields, jumpers, cable tags and the as-found diagnostic state for TC-HAO081.

Q4 Which Experion C200 ControlNet I/O configuration must be checked when commissioning the TC-HAO081 Eight-Point HART Analog Output Module?

Verify the assigned channel, slot, node or interface and compare it with the approved Experion C200 ControlNet I/O configuration before enabling TC-HAO081.

Q5 How can the TC-HAO081 Eight-Point HART Analog Output Module be function-tested for Smart actuator diagnostics without disturbing the process?

Use a controlled stimulus or limited command, observe the expected system indication and confirm the intended response while normal interlocks remain effective.

Q6 Which diagnostics should be reviewed if the TC-HAO081 Eight-Point HART Analog Output Module stops performing its assigned system function?

Check seating, the matched C200 I/O chassis, the condition of ControlNet I/O adapter and the model-specific diagnostics before replacing more hardware.

Q7 Can the TC-HAO081 Eight-Point HART Analog Output Module used for Drive reference control be transferred to another Experion C200 ControlNet I/O position without engineering review?

No. Confirm the hardware execution, connector scheme and approved Experion C200 ControlNet I/O configuration before transferring TC-HAO081 to a different duty.

Q8 What evidence should be retained after the TC-HAO081 Eight-Point HART Analog Output Module returns to C200 output-loop modernization service?

Retain the physical identification, as-left wiring or configuration, final diagnostics and controlled functional-test result for TC-HAO081.

SOURCE Honeywell System HINTS November 2020 | C200 hardware list

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