PRODUCT INFORMATION DASHBOARD

Honeywell 8C-PAOHA1 51454469-275

HART Analog Output Module

Honeywell 8C-PAOHA1 51454469-275 is a coated sixteen-channel Series 8 analog output module that delivers 4-20 mA current and supports HART devices, output diagnostics and configurable fail behavior.

PRODUCT ROLE

16 HART-capable 4-20 mA outputs

SYSTEM

Series 8 HART analog output

INTERFACE

Coated Series 8 construction

SERVICE FOCUS

Open-wire channel diagnostics

Exact-model highlights

- 16 HART-capable 4-20 mA outputs
- Coated Series 8 construction
- Per-channel HOLD or SHED selection
- Open-wire channel diagnostics

Release questions

IDENTITY

Is the complete 8C-PAOHA1 51454469-275 code confirmed?

INTERFACE

Do field signals and companion equipment match?

SETTINGS

Are installed parameters and mappings preserved?

ACCEPTANCE

Have normal, fault and recovery states been tested?

Technical data

I/O function	Coated analog output with HART
Output channels	16
Output type	4-20 mA
Voltage rating	24 VDC
Module current rating	205 mA
Load resistance	50-800 Ohm with 22-28 VDC supply
Settable current range	2.9-21.1 mA
Maximum compliant voltage	16 V
Calibrated accuracy	+/-0.2% full scale at 25 degrees C
Compatible IOTAs	8C-TAOXA1 nonredundant and 8C-TAOXB1 redundant

Application safeguards

SAFEGUARD 1

Match 8C-PAOHA1 and 51454469-275 to the coated installed module before replacement.

SAFEGUARD 2

Record all sixteen output assignments, ranges, HART devices and per-channel FAILOPT selections.

SAFEGUARD 3

Place connected final elements in an approved safe or manual condition before isolating the output path.

SAFEGUARD 4

Verify loop polarity and calculate resistance within the 50-800 Ohm operating boundary before energization.

Common applications

Control-valve positioning

Supplies 4-20 mA commands and HART communication to compatible valve positioners.

Process final-element control

Drives current-commanded actuators within the documented load and compliance limits.

Recorder and indicator outputs

Provides calibrated current signals to recording or indicating devices.

Redundant Series 8 output

Works with the redundant coated IOTA when the installed control architecture requires it.

Interface checklist

- Controller side: Sixteen configured analog output commands with channel diagnostics
- Field side: 4-20 mA current to actuators and recording or indicating devices
- HART communication: Configuration and status access for HART-capable field devices
- Termination: Coated 8C-TAOXA1 nonredundant or 8C-TAOXB1 redundant IOTA

Installation snapshot

STEP 1

Capture the module label, IOTA identity and cabinet position.

STEP 2

Back up output configuration and the current operating values.

STEP 3

Isolate loop energy and label conductor polarity before removal.

STEP 4

Protect connected actuators from unintended movement during field work.

Model-specific FAQ

Q1 How many outputs does Honeywell 8C-PAOHA1 51454469-275 provide?

It provides sixteen analog output channels.

Q2 Which output signal is delivered by Honeywell 8C-PAOHA1 51454469-275?

The module delivers 4-20 mA current outputs.

Q3 Does Honeywell 8C-PAOHA1 51454469-275 support HART devices?

Yes. It is the Series 8 coated analog output module with HART capability.

Q4 Which IOTAs pair with Honeywell 8C-PAOHA1 51454469-275?

8C-TAOXA1 is the coated nonredundant IOTA and 8C-TAOXB1 is the coated redundant IOTA.

Q5 What load range applies to Honeywell 8C-PAOHA1 51454469-275?

The specified load resistance is 50 to 800 Ohm with a 22 to 28 VDC supply.

Q6 How does Honeywell 8C-PAOHA1 51454469-275 handle a configured fail condition?

Each channel can be configured to hold its last value or shed to a safe value through FAILOPT.

Q7 What open-wire response is available on Honeywell 8C-PAOHA1 51454469-275?

An open field wire can be detected and annunciated as a channel soft failure.

Q8 What measurements should be compared when commissioning Honeywell 8C-PAOHA1 51454469-275?

Compare the commanded value, external loop-current measurement and output readback, then verify diagnostics, fail behavior and HART communication.

Product precautions

1. Match 8C-PAOHA1 and 51454469-275 to the coated installed module before replacement.
2. Record all sixteen output assignments, ranges, HART devices and per-channel FAILOPT selections.
3. Place connected final elements in an approved safe or manual condition before isolating the output path.
4. Verify loop polarity and calculate resistance within the 50-800 Ohm operating boundary before energization.
5. Use only the coated 8C-TAOXA1 or 8C-TAOXB1 termination arrangement documented for this module.
6. Use grounded ESD controls and avoid damaging the conformal coating or connector surfaces.
7. Test HOLD LAST VALUE and SHED behavior only under a controlled process-safe commissioning plan.
8. Prove commanded current, external measurement, readback, open-wire indication and HART communication before handover.

Related products

Verified related products on ApterPower

Honeywell 8C-TAOX61 51306981-175
Redundant output termination
View Honeywell 8C-TAOX61 51306981-175

Honeywell CC-PAOH01
Series C HART output portfolio
View Honeywell CC-PAOH01

Honeywell CC-TAOX11
Series C output termination
View Honeywell CC-TAOX11

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Share the exact 8C-PAOHA1 51454469-275 nameplate, application and required quantity for a model-specific quotation.