

Honeywell Honeywell Series Service Manual

CC-PAOH51

1. Description

Analog Output with HART – CC-PAOH51

3. Product Information

Analog Output with HART – CC-PAOH51

Function

The Analog Output (AO) Module delivers high-level constant current to actuators and recording/indicating devices.

Notable Features

Extensive self-diagnostics

Optional redundancy

HART-capable for Status and Configuration

Safe-state (FAILOPT) behaviors configurable on a

per channel basis

Non-incendive output

FAILOPT

Series C AO module supports the FAILOPT parameter on a per channel basis. The user can configure each channel to either HOLD LAST VALUE, or SHED to a SAFE VALUE. The Output will always go to zero, the safe state, if the IOM device electronics fails.

Open-wire Detection

This Series C IO function will be able to detect and annunciate open field wire with a Channel Soft Failure indication.

Detail Specifications – Analog Output with HART

Parameter Specification

Input / Output Model CC-PAOH51 - High-Level Analog Output with HART

IOTA Models CC-TAOX51 Non-Redundant 6"

CC-TAOX61 Redundant 12"

Output Type 4-20 mA

Output Channels 16

Output Ripple < 100 mV peak-to-peak at power line frequency, across 250

Ω load

Output Temperature Drift 0.005% of Full Scale/°C

Output Readback Accuracy ±4% of Full Scale

Output Current Linearity ± 0.05% of Full Scale nominal

Resolution ± 0.05% of Full Scale

Calibrated Accuracy ± 0.35% of Full Scale (25°C) including linearity

Directly Settable Output Current Range 0 mA, 2.9 mA to 21.1 mA

Maximum Resistive Load

(24 V supply = 22 VDC through 28 VDC)

800 ohms

Maximum Output Compliant Voltage

(24 V supply = 22 VDC through 28 VDC)

16 V

Maximum Open Circuit Voltage 22 V

Parameter Specification

Response Time

(DAC input code to output)

settles to within 1% of final value within 80 ms

Gap (0 mA) of Output to Field on Switchover 10 ms maximum (applies to Redundancy only)