

5.8. Analog Output with HART – CC-PAOH01

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, multivariable instruments
- Multiple modems for fast collection of control variables
- Safe-state (FAILOPT) behaviors configurable on a per channel basis
- Output read-back and alarm on discrepancy
- 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-PAOH01 - High-Level Analog Output with HART		
IOTA Models	CC-TAOX01	Non-Redundant	6"
	CC-TAOX11	Redundant	12"
	CC-GAOX11	Redundant	12"
	CC-GAOX21	Non-Redundant	6"
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		