1769sc-OF4IH
Analog + HART Output Module

The 1769sc-OF4IH Output Module provides remote I/O with full analog output capability, and the benefit of the HART (Highway Addressable Remote Transducer) protocol in one I/O module.

Reduce System Costs

The 1769sc-OF4IH module maximizes your system performance by combining real-time HART data acquisition with standard analog control—at a fraction of the cost. Simplify commissioning, operation, and maintenance of your HART devices. You may use the data as the foundation of your asset management system:

- Four channels of isolated current output and HART.
- The module acts as a HART master, allowing communication with HART field devices.
- Full Read/Write HART capability.
- Passthrough messaging capability.
- HART PV, SV, TV, FV along with analog data.
- Isolation 710 VDC channel-to-channel, 710 VDC channel-to-backplane isolation.

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SPECTRUM CONTROLS

1769sc-OF4IH Specifications

Outputs per Module	Four outputs
Output Types	0-20 mA; 4-20 mA current plus HART. HART available only on 4-20 mA range
Resolution	16-bits (all ranges)
HART Dynamic Variables	PV, SV, TV, FV
Update Time (Minimum)	10 ms analog, 6 seconds HART
Advanced Feature	Factory calibration
Accuracy	0.05% of range voltage 0.15% of range current
Electrical Isolation (continuous)	710 VDC field-wiring-to-backplane; 500 VDC field-wiring-to-chassis-ground; 710 VDC channel-to-channel isolation.
Output Impedance	50 to 750 ohm drive, current
Data Formats	Integer
Overvoltage Protection	± 24 VDC
Backplane Current Required	200 mA @ 24 V max 180 mA @ 5 V max

Environmental Conditions
   Operational Temperature
   Storage Temperature
   Relative Humidity
	
	-0 °C - 60 °C (32 °F - 140 °F)
	-40 °C - 85 °C (-40 °F - 185 °F)
	5% - 95% (non-condensing)

Thermal Dissipation	3.4 Watts, maximum
Calibration	Factory-only calibration supported, no user calibration
Certifications	UL/cUL Listed ANSI ISA 12.12.01 (Class I, Div 2, Groups ABCD), CE
DTM files are available:	www.spectrumcontrols.com
Terminal Base	18-position