CompactLogix™

1769sc-OF4IH/ 1769sc-OF4IHK

Analog + HART Module

The 1769sc-OF4IH/1769sc-OF4IHK Output Modules provide local or remote I/O with full analog output capability, and the benefit of the HART (Highway Addressable Remote Transducer) protocol in one I/O module. The 1769sc-OF4IHK Input Module is conformally coated. 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.
- Two output ranges.
- 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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PN: 0100376-01
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Technology Partner
A ROCKWELL AUTOMATION PARTNER

1769sc-OF4IH(K) Specifications

Channels per Module	Four outputs
Output Ranges	0-20 mA; 4-20 mA current plus HART. HART available only on 4-20 mA range
Resolution	16-bits (all ranges)
Advanced Feature	
Overvoltage Protection	±24 VDC
Update Time (Minimum)	10 ms analog, 6 seconds HART
Data Formats	Integer
HART Dynamic Variables	PV, SV, TV, FV
Output Load	750 ohms maximum
Full Scale Settling Time	Less than 5ms to 63% of full scale (HART not enabled)
Accuracy	0.05% of range voltage 0.15% of range current
Electrical Isolation (1 minute)	710 VDC field-wiring-to-backplane; 500 VDC field-wiring-to-chassis-ground; 710 VDC channel-to-channel isolation.
Output Impedance	1 Megohm
Backplane Current Required	200 mA at 24 V max 180 mA at 5 V max
Switching Load	
Maximum Inductive Load	0.1mH
Resistive Load	50- to 750-ohm drive, current
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	3.8 W at 21.0 mA current all channels with 250 ohm minimum load
Conformal Coating	ANSI/ISA 71.04.2013 G3 Environment Standard
Certifications	UL/cUL Listed ANSI ISA 12.12.01 (Class I, Div 2, Groups ABCD), CE, ATEX, CCC, CMIM, UKCA

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