

# COMPACTLOGIX™

## 1769sc-IF4IH

# Analog + HART Input Module



The 1769sc-IF4IH Input Modules provide remote I/O with full analog input capability, and the benefit of the HART (Highway Addressable Remote Transducer) protocol in one I/O module. Obtain real-time data from your process instruments and operate a smart network—without the need for additional wiring.

### Reduce System Costs

The 1769sc-IF4IH modules maximize your system performance by combining real-time HART data acquisition with standard analog acquisition and 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 analog input and HART.
- The module also 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.

# 1769sc-IF4IH Specifications

Input Types	4 inputs plus HART
Input Types	0-20 mA, 4-20 mA plus HART 0-5 V, 1-5 V, 0-10 V, $\pm 10$ V
Resolution	16-bits (all ranges)
HART Dynamic Variables	PV, SV, TV, FV
Advanced Features	5 filter frequencies (individually selectable by channel) Factory calibration; open circuit
Update Times	18 to 488 ms, all channels 6 seconds for HART
Data Formats	Integer
Electrical Isolation (continuous)	710 VDC field-wiring-to-backplane; 500 VDC field-wiring-to-chassis-ground 710 VDC channel-to-channel isolation
Input Impedance	>220 Kohm Voltage; <250 ohm, current
Input Overvoltage Protection	24 VDC voltage; 7 VDC current
Backplane Current Required	125 mA at 5 V max 60 mA at 24 V max
Common Mode Rejection	60 dB at 60 Hz
Normal Mode Rejection	50 dB at 50/60 Hz
Environmental Conditions	
Operational Temperature	0 °C - 60 °C (32 °F - 140 °F)
Storage Temperature	-40 °C - 85 °C (-40 °F - 185 °F)
Relative Humidity	5% - 95% (non-condensing)
Thermal Dissipation	1.00 Watt, maximum
Accuracy	$\pm 0.2\%$ of range voltage $\pm 0.35\%$ of range current
Calibration	Factory calibrated; open circuit
Certifications	UL/cUL Listed ANSI ISA 12.12.01 (Class I, Div 2, Groups ABCD), CE
DTM files are available:	<a href="http://www.spectrumcontrols.com">www.spectrumcontrols.com</a>
Terminal Base	18-position