CompactLogix™

1769sc-IF4IH/1769sc-IF4IHK Analog + HART Input Module

The 1769sc-IF4IH/1769sc-IF4IHK Input Modules provide local or remote I/O with full analog input capability, and the benefit of the HART (Highway Addressable Remote Transducer) protocol in one I/O module. The 1769sc-IF4IHK Input Module is conformally coated. Obtain real-time data from your process instruments and operate a smart network—without the need for additional wiring.

- Four isolated analog input channels plus HART.
- 6 input types.
- 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.

425.746.9481
spectrum@spectrumcontrols.com
1705 132nd Ave NE, Bellevue WA 98005

PN: 0100372-01
Rev. E (October 2024)

1769sc-IF4IH(K)

Specifications

Channels Per Module	4 Current, Voltage inputs plus HART
Input Ranges: Current Voltage	 0-20 mA, 4-20 mA plus HART 0-5 V, 1-5 V, 0-10 V, ±10 V
Resolution	16 bits
HART Dynamic Variables	PV, SV, TV, FV
Advanced Features	
Filtering	5 filter frequencies (individually selectable by channel)
Input Protection	Voltage Terminal: +/- 24VDC continuous Current Terminal: +/-28mA continuous, +/- 7 VDC
Update Times (ms)	10 to 108 ms for 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 <250 ohm, current
Common Mode Rejection	60 dB at 50/60 Hz
Normal Mode Rejection	50 dB at 50/60 Hz
Backplane Current Required	75 mA at 24 VDC max 175 mA at 5 VDC max
Thermal Dissipation	1.0 Watt, maximum
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)
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

425.746.9481
spectrum@spectrumcontrols.com
1705 132nd Ave NE, Bellevue WA 98005

PN: 0100372-01
Rev. E (October 2024)