

# 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.

# 1769sc-IF4IH(K) Specifications



|   |  |
|---|--|
| Channels Per Module   | 4 Current, Voltage inputs plus HART  |
| Input Ranges:<br>Current<br>Voltage   | 0-20 mA, 4-20 mA plus HART<br>0-5 V, 1-5 V, 0-10 V, $\pm 10$ 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: $\pm 24$ VDC continuous<br>Current Terminal: $\pm 28$ mA continuous, $\pm 7$ VDC                   |
| Update Times (ms)   | 10 to 108 ms for all channels. 6 seconds for HART  |
| Data Formats  | Integer  |
| Electrical Isolation<br>(continuous)  | 710 VDC field-wiring-to-backplane;<br>500 VDC field-wiring-to-chassis-ground<br>710 VDC channel-to-channel isolation |
| Input Impedance   | $>220$ Kohm<br>$<250$ 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<br>175 mA at 5 VDC max   |
| Thermal Dissipation   | 1.0 Watt, maximum  |
| Environmental Conditions<br>Operational Temperature<br>Storage Temperature<br>Relative Humidity | 0 °C - + 60 °C (32 °F - +140 °F)<br>-40 °C - +85 °C (-40 °F - +185 °F)<br>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                             |