

POINT I/O™

1734sc-IE2CIH(K)/IE4CIH(K) 4-Channel Universal Analog Input Module



The 1734sc-IE2CH/IE4CH Input Modules provide full analog input capability, and the benefit of HART (Highway Addressable Remote Transducer) protocol in one I/O module. The 1734sc-IE2CHK/1734sc-IE4CHK Input Modules are conformally coated.

The 1734sc-IE2CH/IE4CH 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.

- Two/four analog input channels and HART.
- 1 Input Type
- Acts as a HART master, allowing communication with HART field devices.
- DTM and CONNECTS support provides an interface to your asset management software.
- Easy to configure using Studio 5000 programming software, add-on profile (AOP) available.
- Channel-selectable filtering for fastest analog update time and noise rejection.
- User calibration and scaling.
- Fault reporting.

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Specifications



Channels Per Module	2/4, single-ended Current plus HART
Input Ranges:	4-20 mA plus HART
Resolution	16-bit
HART Dynamic Variables	PV, SV, TV, FV
Accuracy	Better than 0.1% of range at 0 °C to 25 °C
Advanced Features	
Filtering	7 filter frequencies (individually selectable by channel)
Input Overvoltage Protection	28.8 VDC continuous
Input Overcurrent Protection	28 mA continuous
Update Times (ms) *	
4-Channel Sample Time (ms)	488 ms at 50/60 Hz to 33 ms at 480 Hz
2-Channel Sample Time (ms)	248 ms at 50/60 Hz to 21 ms at 480 Hz
Data Formats	Engineering units (scalable)
Electrical Isolation (continuous)	50 VDC field-wiring-to-backplane; 50 VDC field-wiring-to-chassis-ground; 10 VDC channel-to-channel isolation.
Input Impedance	250 Ohm, typical;
Common Mode Rejection	>-96 dB at 50/60 Hz
Normal Mode Rejection	>-60 dB at 50/60 Hz
Backplane Current Required	20 mA at 24 VDC max 12 mA at 5 VDC max
Thermal Dissipation	1.0 Watt, maximum
Environmental Conditions	
Operational Temperature	-20 °C -+ 55 °C (-4 °F - +131 °F)
Storage Temperature	-40 °C - +85 °C (-40 °F - +185 °F)
Relative Humidity	5% - 95% (non-condensing)
Certifications	UL/cUL Listed ANSI ISA 12.12.01 (Class I, Div. 2, Groups ABCD), CE, UKCA, ATEX, CCC, ROROC