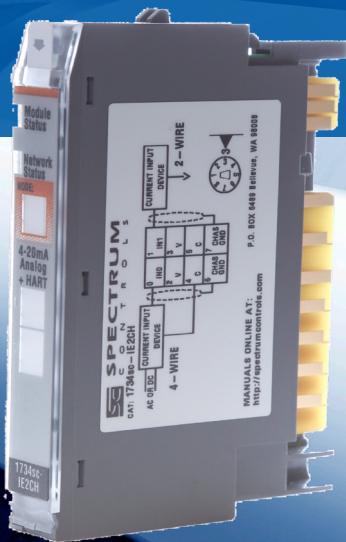


POINT I/O™

1734sc-IE2CH/IE4CH

Analog + HART Input Module



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

Reduce System Costs

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 channels of analog input and HART.
- The module also acts as a HART master, allowing communication with HART field devices.
- DTM and CONNECTS support provides an interface to your asset management software.
- Channel-selectable filtering for fastest analog update time and noise rejection.
- User calibration and scaling.
- Fault reporting.

1734sc-IE2CH/IE4Ch Specifications

Input Types	2/4, single-ended Current plus HART						
Input Ranges	4-20 mA plus HART						
Resolution	16-bit						
HART Dynamic Variables	PV, SV, TV, FV						
Advanced Features	7 filter frequencies (individually selectable by channel); full auto-calibration; on-board error checking.						
Update Times	50/60 Hz	50 Hz	60 Hz	100 Hz	120 Hz	240 Hz	480 Hz
4-Channel Sample Time (ms)	488	248	208	128	108	58	33
2-Channel Sample Time (ms)	128	128	108	68	58	33	21
Communication 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						
Input Overvoltage Protection	+28.8 VDC continuous						
Input Overcurrent Protection	28 mA continuous						
Backplane Current Required	20mA @ 24 V max 12 mA @ 5 V max						
Common Mode Rejection	>-150 dB @ 50/60 Hz						
Normal Mode Rejection	>-150 dB @ 50/60 Hz						
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)						
Thermal Dissipation	1.00 Watt, maximum						
Accuracy	Absolute: ± 20 uA at 25 °C; Drift with temperature: 50 uA max 20 °C - 55 °C, 30 ppm typical						
Calibration	Factory calibrated; user calibration supported						
Certifications	UL/cUL Listed ANSI ISA 12.12.01 (Class I, Div 2, Groups ABCD), CE						
Recommended Cable	For RTD, mV, V, or mA inputs: Belden 8761 or equivalent						
Terminal Base	1734-TB. 1734sc-IE4CH is NOT compatible with a 12-pin base						