

POINT I/O™

1734sc-IF4u 4-Channel Universal Analog Input Module



The 1734sc-IF4u Input Module provides full universal analog input capability in one I/O module. The 1734sc-IF4u module can replace analog input, thermocouple, and RTD modules without compromising performance or price.

Reduce System Costs

The 1734sc-IF4u module maximizes 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 voltage, current, or three thermocouple, or two RTD/resistance inputs.
- Use any combination of input types at one time.
- Accuracy comparable with dedicated analog modules.
- Individually programmable for each channel.
- Easy to configure using RSLogix programming software.
- Channel-selectable filtering for fastest analog update time and noise rejection.
- Cold junction compensation included for thermocouples.

1734sc-IF4u Specifications

Input Types	4 V, C, or 3 TC, or 2 RTD, Resistance			
Input Ranges				
Thermocouple	J, K, T, E			
RTD	PT385/3916, Ni618/672, NiFe518, Cu426			
Resistance	0-150, 0-1000, 0-3000 ohms			
Current	0-20 mA, 4-20 mA			
Voltage	±50 mV, ±100 mV, 0-5 V, 1-5 V, 0-10 V, ±10 V			
Resolution	18 bits			
Advanced Features	6 filter frequencies (individually selectable by channel)			
Update Times (ms) *	4 Hz	17 Hz	62 Hz	470 Hz
4-Channel Sample Time (ms)	512	153	65	37
* with TC, update times may be longer				
Electrical Isolation (continuous)	50 VDC field-wiring-to-backplane; 50 VDC field-wiring-to-chassis-ground; 10 VDC channel-to-channel isolation.			
Input Impedance	253 ohm, current; 10.4 Mohm, voltage, thermocouple, RTD			
Input Overvoltage Protection	+24 VDC continuous			
Input Overcurrent Protection	32 mA continuous			
Backplane Current Required	15 mA at 5 V maximum , 20 mA at 24 V maximum			
Common Mode Rejection	<96 dB at 50/60 Hz			
Normal Mode Rejection	65 dB to 74 dB at 50/60 Hz			
Environmental Conditions				
Operational Temperature	-0 °C - 60 °C (-4 °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				
Voltage/Current	0.10% of full scale			
Thermocouple	0.25% of full scale			
RTD	0.80% of full scale from 0 °C to 300 °C			
Certifications	UL/cUL Listed ANSI ISA 12.12.01 (Class I, Div 2, Groups ABCD), CE			
Weight	40 g (1.41 ozs)			
Terminal Base	1734-TB/1734-TBS			