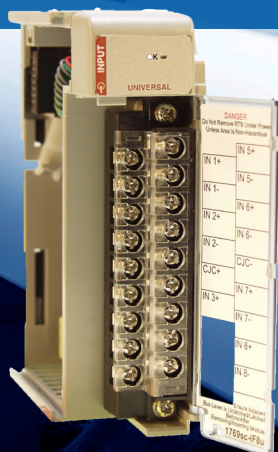


CompactLogix™ 1769sc-IF8u 8-Channel Universal Analog Input Module



The 1769sc-IF8u Input Module provides full universal analog capability in one I/O module. The 1769sc-IF8u module can replace analog input, thermocouple, and RTD modules without compromising performance or price.

Reduce System Costs

- Eight channels of voltage, current, and thermocouple, or 4 channels RTD/resistance.
- 32 input types.
- Use any combination of input types at one time.
- Individually programmable for each channel.
- Easy to configure using ladder register settings or RSLogix programming software.
- Channel-selectable filtering for fastest analog update time and noise rejection.
- Cold junction compensation included for thermocouples.
- Accuracy comparable with dedicated analog modules.
- 3- or 4-wire support for RTDs.

1769sc-IF8u Specifications

Input Types	8 V, C, or TC, or 4 RTD/Res				
Input Ranges					
Thermocouple	J, K, T, B, E, R, S, N, C				
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	16 bits				
Advanced Features	5 filter frequencies (individually selectable by channel)				
Update Times (ms) *	10 Hz	50 Hz	60 Hz	250 Hz	1000 Hz
8-Channel Sample Time (sec)	2.44	0.53	0.45	0.15	0.07
* with TC, update times may be longer					
Electrical Isolation (continuous)	10 VDC channel-to-channel isolation; 125 VAC field-wiring-to-backplane 125 VAC field-wiring-to-chassis-ground.				
Input Impedance	>10 Mohm; thermocouple, voltage, RTD <250 ohm, current				
Input Overvoltage Protection	± 30 VDC continuous				
Input Overcurrent Protection	28 mA continuous				
Backplane Current Required	150 mA at 5 V maximum , 45 mA at 24 V maximum				
Common Mode Rejection	115 dB at 50/60 Hz				
Normal Mode Rejection	85 dB at 50/60 Hz				
Environmental Conditions					
Operational Temperature	-0 °C - 60 °C (32 °F - 140 °F)				
Storage Temperature	-45 °C - 85 °C (-49 °F - 185 °F)				
Relative Humidity	5% - 95% (non-condensing)				
Thermal Dissipation	3.00 Watts, maximum				
Certifications	UL/cUL Listed ANSI ISA 12.12.01 (Class I, Div 2, Groups ABCD), CE				
Recommended Cable	For TC inputs: shielded, twisted-pair TC extension wire For RTD, mV, V, or mA inputs: Belden 8761 or equivalent				