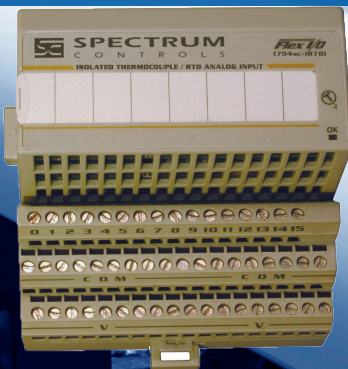


FLEX IO™

1794sc-IRT8I

8-Channel Isolated Thermocouple/ RTD Input Module



The 1794sc-IRT8I Input Module provides full isolated, Thermocouple, RTD/Resistance input capability for noisy environments, in one I/O module. The 1794sc-IRT8I module can replace Thermocouple, Resistance/RTD modules without compromising performance or price.

Reduce System Costs

- Eight channels of thermocouple, RTD/resistance.
- 22 input types.
- Use any combination of input types at one time.
- Supports multiple thermocouple, RTD input types.
- Individually programmable input type, open circuit detection, and high and low range alarms 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.

1794sc-IRT8I Specifications

Input Types	8 TC, RTD/Res					
Input Ranges						
Thermocouple	J, K, T, E, R, B, S, N, C					
RTD	PT385/3916, Ni618/672, NiFe518, Cu426					
Resistance	0-150, 0-1000, 0-3000 ohms					
Resolution	16 bits					
Advanced Features	6 filter frequencies (individually selectable by channel)					
Update Times (sec) *	4.17Hz	10 Hz	16.7 Hz	19.6 Hz	62 Hz	470 Hz
8-Channel Sample Time (sec)	0.30	0.63	0.53	0.15	0.09	0.07
* with TC, update times may be longer						
Electrical Isolation (continuous)	120 VAC channel-to-channel isolation 120 VAC field-wiring-to-backplane 120 VAC field-wiring-to-chassis-ground					
Input Impedance	>1 Mohm thermocouple, voltage, RTD <250 ohm, current					
Input Overvoltage Protection	+24 VDC continuous					
Input Overcurrent Protection	31 mA continuous					
Backplane Current Required	240 mA at 24 V maximum (19.1 VDC to 31.2 VDC); 80 mA at 5 VB					
Common Mode Rejection	60 dB at 50/60 Hz					
Normal Mode Rejection	65 dB at 50/60 Hz (10 Hz filter); 70 dB at 50/60 Hz (4.17 Hz filter)					
Environmental Conditions						
Operational Temperature	-0 °C - 55 °C (32 °F - 131 °F)					
Storage Temperature	-40 °C - 85 °C (-49 °F - 185 °F)					
Relative Humidity	5% - 95% (non-condensing)					
Thermal Dissipation	5.18 Watts					
Certifications	UL/cUL Listed ANSI ISA 12.12.01 (Class I, Div 2, Groups ABCD), ATEX, CE					
Terminal Base	1794-TB3G					