

Temperature Input Modules

F3-08THM 8-Channel Thermocouple Input <---->	
Note: When you order the module, replace the "n" with the type of thermocouple needed. For example, to order a Type J thermocouple module, order part number F3-08THM-J or F3-08THM-K for type K. Types J and K are stock. All others are special order.	
Input Ranges	Type E: -270/1000°C, -450/1832°F (obsolete) Type J: -210/760°C, -350/1390°F Type K: -270/1370°C, -450/2500°F Type R: 0/1768°C, 32/3214°F (obsolete) Type S: 0/1768°C, 32/3214°F (obsolete) Type T: -270/400°C, -450/752°F (obsolete) -1: 0-50mV -2: 0-100mV
Resolution	12 bit (1 in 4096)
Input Impedance	27Kohm DC
Absolute Maximum Ratings	Fault protected input, 130 Vrms or 100 VDC
Cold Junction Compensation	Automatic
Conversion Time	15ms per channel, minimum 1 channel per CPU scan

Converter Type	Successive approximation, AD574
Linearity Error	±1 count (0.03% of full scale) maximum
Maximum Inaccuracy at 77°F (25°C)	0.35% of full scale
Accuracy vs. Temperature	57ppm/°C maximum full scale
Power Budget Requirement	50mA @ 9VDC, 34mA @ 24VDC
External Power Supply	None required
Operating Temperature	32° to 140°F (0° to 60°C)
Storage Temperature	-4° to 158°F (-20° to 70°C)
Relative Humidity	5 to 95% (non-condensing)
Environmental Air	No corrosive gases permitted
Vibration	MIL STD 810C 514.2
Shock	MIL STD 810C 516.2
Noise Immunity	NEMA ICS3-304

Note 1: Terminate shields at the respective signal source.

Note 2: Leave unused channel open (no connection).

