

TEMPERATURE INPUT MODULES

F4-08THM-n-8-Channel Thermocouple Input \$539.00

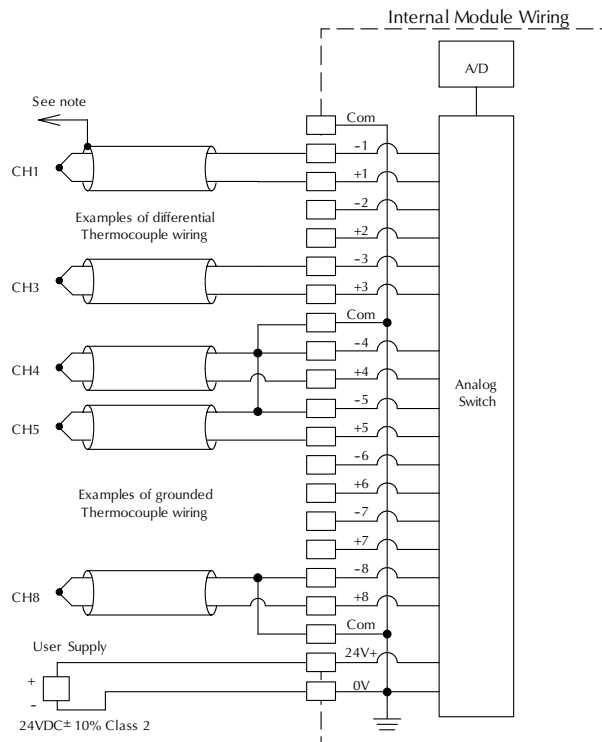
When you order the module, replace the "n" with the type of Thermocouple needed. For example, to order a Type J thermocouple module, order part number F4-08THM-J or part number F4-08THM-K for a Type K module.

Number of channels	8, differential inputs																																	
Input Ranges	<table> <tr> <td>Type B</td> <td>529/1820°C,</td> <td>984/3308°F</td> </tr> <tr> <td>Type C</td> <td>65/2320°C,</td> <td>149/4208°F</td> </tr> <tr> <td>Type E</td> <td>-270/1000°C,</td> <td>-450/1832°F</td> </tr> <tr> <td>Type J</td> <td>-210/760°C,</td> <td>-350/1390°F</td> </tr> <tr> <td>Type K</td> <td>-270/1372°C,</td> <td>-450/2502°F</td> </tr> <tr> <td>Type R</td> <td>0/1768°C,</td> <td>32/3214°F</td> </tr> <tr> <td>Type S</td> <td>0/1768°C,</td> <td>32/3214°F</td> </tr> <tr> <td>Type T</td> <td>-270/400°C,</td> <td>-450/752°F</td> </tr> <tr> <td></td> <td>-1: 0-50 mV</td> <td></td> </tr> <tr> <td></td> <td>-2: 0-100 mV</td> <td></td> </tr> <tr> <td></td> <td>-3: 0-25mV</td> <td></td> </tr> </table>	Type B	529/1820°C,	984/3308°F	Type C	65/2320°C,	149/4208°F	Type E	-270/1000°C,	-450/1832°F	Type J	-210/760°C,	-350/1390°F	Type K	-270/1372°C,	-450/2502°F	Type R	0/1768°C,	32/3214°F	Type S	0/1768°C,	32/3214°F	Type T	-270/400°C,	-450/752°F		-1: 0-50 mV			-2: 0-100 mV			-3: 0-25mV	
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Resolution	12 bit (1 in 4,096)																																	
Input Impedance	27Kohm DC																																	
Absolute Maximum Ratings	Fault protected input, 130 Vrms or 100VDC																																	
Cold Junction Compensation	Automatic																																	
Conversion Time	15ms per channel, minimum 1 channel per CPU scan																																	
Converter Type	Successive Approximation, 574																																	

Linearity Error	± 1 count (0.03% of full scale) maximum
Full Scale Calibration Error	± 0.35% of full scale
Maximum Inaccuracy*	± 1°C for type E, J, K, and T ± 3°C for type B, C, R, and S
PLC Update Rate	1 ch. per scan min., 8 per scan max.
Digital Input Points Required	16 (X) input points (12 binary data bits, 3 channel ID bits, 1 sign bit)
Base Power Required 5V	120 mA
External Power Supply	24VDC ±10%, 50 mA current
Operating Temperature	32 to 140°F (0 to 60°C)
Storage Temperature	-4 to 158°F (-20 to 70° C)
Accuracy vs Temperature*	57 ppm/°C maximum full scale
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 channels open (no connection)

www.automationdirect.com/dl405



*Max. inaccuracy is not guaranteed for temperatures lower than:
-220°C for types E & T
-200°C for types J & K
+100°C for types R & S

