

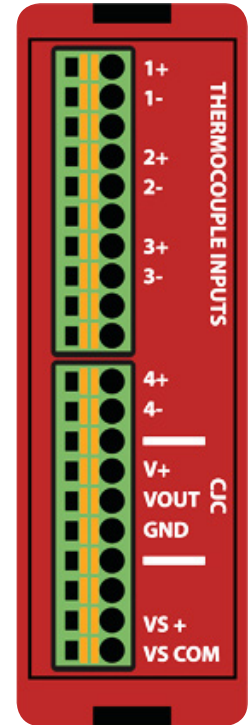
EZ I/O™ Thermocouple Input Module

EZRack PLC

Module Specifications	
Number of Channels	4, differential
Common Mode Range	-1.5 VDC to +4.0 VDC
Common Mode Rejection	100dB min. @ VDC 50/60Hz
Input Impedance	5MΩ
Absolute Maximum Ratings	Fault-protected inputs to ±50 VDC
Accuracy vs. Temperature	± 15ppm/°C max. 0-1.25V ±35 ppm/°C max. (including max. offset change)
PLC Update Rate	4 channels per scan
Base Power Required	10mA @ 3.3 VDC supplied by base
Operating Temperature	-4° to 140°F (-20° 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

EZRPL-IO-4THIE
\$149

Pinout Information			
1	Input 1+	11	Input 4+
2	Input 1-	12	Input 4-
3	Not Connected	13	Not Connected
4	Input 2+	14	CJC V+
5	Input 2-	15	CJC VOut
6	Not Connected	16	CJC Ground
7	Input 3+	17	
8	Input 3-	18	
9	Not Connected	19	VS+
10	Not Connected	20	VS Common



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Thermocouple Specifications	
Input Ranges in C	Type J -210 to 1200°C Type K -200 to 1372°C Type S -50 to 1768°C Type T -200 to 400°C Type E -200 to 1000°C Type R -50 to 1768°C Type B 250 to 1820°C Type N -200 to 1300°C
Display Resolution	Type J,K,T, E,B,N ± 0.1°C; Type S,R ± 1°C
Resolution	16 Bit (1 in 65535)
Cold Junction Compensation	Automatic
Conversion Time	1ms per channel
Warm-Up Time	30 minutes typically ± 1°C repeatability
Linearity Error (End to End)	± 1°C max. ± 0.5°C typical
Maximum Inaccuracy	± 2°C (excluding thermocouple error)

