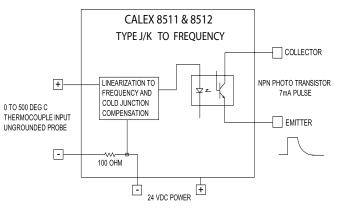
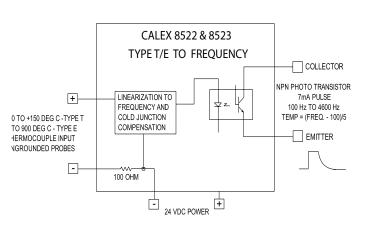


Models 8511, 8512, 8522, 8523 Types J, K, T, and E Thermocouple to Frequency



Model 8511, 8512, 8522 and 8523 thermocouple to frequency converters are designed to operate into a common 24 volt, 7 mA PLC high speed counter input. The output is an isolated optocoupler transistor and provides DC isolation from the input and DC power. They operate with a DC supply of 15 volts to 26 volts at 15 mA. The module's housing is plastic with a U-foot for mounting on standard DIN rails. The unit's dimensions, excluding the mounting foot, are 1.65"H x 1.06"W x 3.78"L. Connections are made to screw clamp terminal blocks.





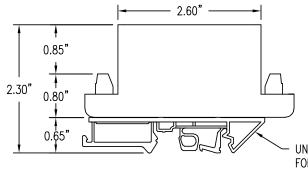
Model	8511	8512		
Input	Type J Thermocouple 0°C to 500°C	Type K Thermocouple 0°C to 500°C		
Γ	Use Ungrounded Probes			
Output	100 Hz at 0°C to 5100 Hz at 500°C	100 Hz at 0°C to 5100 Hz at 500°C		
Resolution	0.1°C for 1 second Time Base 12 Bits	0.1°C for 1 second Time Base 12 Bits		
Accuracy	±2°C plus conformity error	±2°C plus conformity error		
Cold Junction Compensation +2°C to 55°C	±0.05°C / °C Typical	±0.05°C / °C Typical		
Output Source	Floating Optocoupler Transistor, 7mA Minimum Current			
Pulse Width	50 μs Typical	50 μs Typical		
Response Time	1 second	1 second		
Isolation Input to Output Transistor	700 Volts DC 5 pF	700 Volts DC 5 pF		
Power Requirements				
Voltage	15 to 26 Volts DC	15 to 26 Volts DC		
Current	15 mA Typical	15 mA Typical		
	Power supply connected to thermocouple negative input lead through 100 ohms			
Environment Operating Storage	+2°C to +55°C -40°C to +80°C			
Size (Not including universal foot)	1.65"H x 1.06"W x 3.78"L (42 x 27 x 96 mm)			
Weight	3 oz (85 grams)			
Agency Approvals	UL508, C22.2 No 14-M91			

Fax: 925-687-3333

Models 8511, 8512, 8522, 8523 Types J, K, T, and E Thermocouple to Frequency

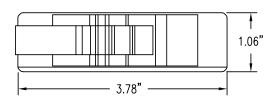
Model	8522	8523		
Input	Type T -20°C to +150°C	Type E 0°C to 900°C		
	Use Ungrounded Probes			
Output	100 Hz at -20°C to 1800 Hz at +150°C Sensor temperature = (Frequency -300) in tenths of a degree	100 Hz at 0°C to 4600 Hz at 900°C		
Accuracy	±2°C, -20°C to +150°C	±2°C to 800°C ±4% to 900°C Does not include thermocoupole error limits if 1.7°C or 0.5%, which ever is greater above 0°C		
Cold Junction Compensation +2°C to 55°C Ambient	±1.5°C at 25°C Ambient ±0.05°C / °C Typical	±1.5°C at 25°C Ambient ±0.05°C / °C Typical		
Output Source Pulse Width	Floating Optocoupler Transistor			
	7 mA Minimum Current 50 µs Typical	7 mA Minimum Current 50 μs Typical		
Response Time	1 second	1 second		
Isolation Input to Output Transistor	500 Volts DC 5 pF	700 Volts DC 5 pF		
Power Requirements		•		
Voltage	10 to 26 Volts DC	10 to 26 Volts DC		
Current	15 mA Typical	15 mA Typical		
	Power supply common connected to thermocouple negative input lead through 100 ohms			
Environment Operating Storage	+2°C to +55°C -40°C to +80°C			
Size (Not including universal foot)	1.65"H x 1.06"W x 3.78"L (42 x 27 x 96 mm)			
Weight	3 oz (85 grams)			
Agency Approvals	UL508, C22.2 No. 14-M91			





	MODEL 8511	MODEL 8512	MODEL 8522	MODEL 8523
PIN	FUNCTION	FUNCTION	FUNCTION	FUNCTION
1	WHITE	YELLOW	BLUE	VIOLET
2	RED	RED	RED	RED
3	COM	COM	COM	COM
4	+24VDC	+24VDC	+24VDC	+24VDC
5	COLLECTOR	COLLECTOR	COLLECTOR	COLLECTOR
6	EMITTER	EMITTER	EMITTER	EMITTER

UNIVERSAL FOOT FOR STANDARD DIN EN RAILS





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