

Supported Thermocouple Types	B, E, J, K, N, R, S, T
Resolution	0.015°C
Speed	<ul style="list-style-type: none"> › 1 Hz when filtering is enabled (maximum measurement rate for all 20 channels) › 10 Hz when filtering is disabled (maximum measurement rate for all 20 channels)
Input Limits	0.25 to 3.0 Vdc (built-in 1.65 Vdc bias voltage)
Maximum Input Voltage	±10 Vdc
DC Common-Mode Rejection	≥ 115 dB
Normal Mode Rejection	> 80 dB (at 50 and 60 Hz)
Internal Cold Junction Accuracy	<ul style="list-style-type: none"> › ±0.28°C maximum (-40° to +70°C) for -SD option › ±0.36°C maximum (-55° to +85°C) for -XD option › ±0.05°C typical (20° to 40°C)
Total Measurement Accuracy in Static Temperature Environment	<ul style="list-style-type: none"> › ±0.4°C typical (20° to 40°C) › ±0.8°C maximum (-40° to +70°C) for -SD option › ±1.0°C maximum (-55° to +85°C) for -XD option

Total Measurement Accuracy for Rapid Temperature Environment Ramps	±3°C maximum (8°C per minute ambient gradient)
Dimensions	21.5 x 10.8 x 5.1 cm (8.5 x 4.25 x 2 in.)
Weight	0.9 kg (1.95 lb)

Communications

CPI	RJ45 interface to Campbell Scientific data loggers and CDM measurement peripherals and sensors
USB	USB micro-B device only, 2.0 full-speed 12 Mbps, for computer connection

System

Processor	Renesas RX63N (32-bit with hardware FPU, running at 96 MHz)
Memory	2 MB SRAM
A/D Converter	24-bit sigma-delta

Power Requirements

Voltage	9.6 to 32 Vdc
Typical Current Drain	<ul style="list-style-type: none"> › 5 mA (sleep) › 30 mA (active)

For comprehensive details, visit: www.campbellsci.com/temp120 

