



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Digital Temperature Controllers

E5CN-T



1/16 DIN Size Controllers with 3-Color Display

- Fast sampling rate (250 ms) and short control period (0.5 s minimum) improves response
- Password protected settings limit access to prevent tampering
- Easy setting and monitoring using 11-segment negative transmissive LCD display
- 3-color display can indicate changes in PV status to make monitoring more informative
- Temperature controllers accept thermocouple, infrared and platinum RTD inputs
- Improved PID algorithm for tight control and high accuracy
- Optional software enables fast and easy controller setup and monitoring via PC
- Software also offers "cloning" capability and enhanced security features through "parameter lockout" feature
- Built-in PC communication port reduces costs and simplifies installation
- Option units include event input, communications, 1-phase and 3-phase heater burnout, and a second control output



- Water-resistant front panel rated NEMA 4X/IP66
- Relay, long-life relay, voltage and current outputs
- Compact: measures 48 H x 48 W x 78 D mm
- 3-year warranty

Specifications

- Thermocouple inputs: Types K, J, T, L, E, U, N, R, S, B
- Platinum RTD inputs: Pt100 and JPt100
- Omron infrared temperature sensor input: 10° -70° C, 60° - 120° C, 115° -165° C, 160° -260° C
- Voltage input: 0 to 50 mV
- Relay output: SPST-NO, 3 A at 250 VAC
- 100,000 electrical operations (standard)
- 1 million operations (long-life relay)
- Voltage output: 12 VDC ±15% for SSR, 21 mA max. load with short-circuit protection
- Current output: 4-20 mA DC, 600 Ω max., approx. 2600 resolution
- Voltage pulse output is for driving an external SSR


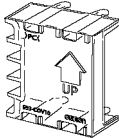

Temperature Controllers

Temperature inputs	Accuracy	Voltage	Alarm outputs	Control outputs	Model
Thermocouple, Platinum RTD, Omron infrared temperature sensor, Voltage	Thermocouple: ±0.5% of indicated value or ±1° C (whichever is greater), ±1 digit max.	100-240 VAC, 50/60 Hz	0	Relay	E5CN-RMT-500 AC100-240
				Voltage	E5CN-QMT-500 AC100-240
				Current	E5CN-CMT-500 AC100-240
			2	Relay	E5CN-R2MT-500 AC100-240
				Voltage	E5CN-Q2MT-500 AC100-240
				Current	E5CN-C2MT-500 AC100-240
	Platinum RTD: ±0.5% of indicated value or ±1° C (whichever is greater), ±1 digit max.	24 VAC, 50/60 Hz, 24 VDC	0	Long-life Relay	E5CN-Y2MT-500 AC100-240
				Relay	E5CN-RMT-500 AC/DC24
				Voltage	E5CN-QMT-500 AC/DC24
			2	Current	E5CN-CMT-500 AC/DC24
				Relay	E5CN-R2MT-500 AC/DC24
				Voltage	E5CN-Q2MT-500 AC/DC24
			Current	E5CN-C2MT-500 AC/DC24	

Option Units for E5CN-T

Functions	Recommended additional parts	Model
Communications (RS-485) + Heater burnout + SSR failure detection	Current transformer for heater burnout detection: 50 A load (E54-CT1 or E54-CT3)	E53-CNH03N
Communications (RS-485)	—	E53-CN03N
Event inputs (two) + Heater burnout + SSR failure detection	Current transformer for heater burnout detection: 50 A load (E54-CT1 or E54-CT3)	E53-CNHBN
Event inputs (two)	—	E53-CNBN
Communications (RS-485) + 3-phase heater burnout + SSR failure detection	Use two current transformers for heater burnout detection: 50 A load (E54-CT1 or E54-CT3)	E53-CNHH03N
Communications (RS-485) + Control output 2 (voltage output)	—	E53-CNQ03N
Control output 2 (voltage output) + Heater burnout + SSR failure detection	Current transformer for heater burnout detection: 50 A load (E54-CT1 or E54-CT3)	E53-CNQHN

Accessories

Functions	Appearance	Specification	Model
Current transformers (CT)		50 A current load, 5.8 mm dia. hole	E54-CT1
		50 A current load, 12 mm dia. hole	E54-CT3
Finger protection terminal cover		Replacement part for controllers with “-500” in the part number	E53-COV10
Panel mounting adapter		Converts 72 x 72 mm panel cutout to 48 x 48 mm cutout	Y92F-45

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To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

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