



Electric heater temperature control box

Provides precise digital control for consistent plating and etch rates in most aqueous processes, Single or three phase. Large (5.6" high), easy to read LED display. Fluoropolymer (FEP) covered 10-foot (3m), 1000-ohm platinum RTD sensor included standard with the control. Vapor resistant, NEMA 1, IP21, gasketed 1/8 DIN plastic enclosure with sealed tactile switches and stainless steel hardware. Large switching capacity from 20-125 amps up to 600 volts. Adjustable temperature range from -40°F (-40°C) to 1000°F (538°C)

cULus

Adjustable
temperature
range from
-40°F (-40°C)
to
999°F (538°C)



Temperature control box

- ◆ Large (5.6" high) easy to read LED display
- ◆ Large switching capacities from 20 to 125 amps for up to 600 volts
- ◆ $\pm 0.25\%$ full span, single digit accuracy
- ◆ Provides precise control for consistent plating and etch rates in most aqueous processes

C-DE SERIES, DIGITAL COMBINATION CONTROLS

MODEL NUMBER	VOLTS	MAX. AMPS	REPL. RELAY P/N	REPL. TRANS.	REPL. SENSOR P/N	SHIP WGT. Lbs./ (kg)
C-DE202	240	20	AHD-20-1	HDD50 2-4/1	RTD1000	16
C-DE204	480	20	AHD-20-1	HDD50 2-4/1	RTD1000	(7.3)
C-DE402	240	40	AHD-40-1	HDD50 2-4/1	RTD1000	17
C-DE404	480	40	AHD-40-1	HDD50 2-4/1	RTD1000	(7.7)
C-DE802	240	80	AHD-80-1	HDD100 2-4/1	RTD1000	25
C-DE804	480	80	AHD-80-1	HDD100 2-4/1	RTD1000	(11.3)
C-DE1252	240	125	AHD-125-1	HDD300 2-4/1	RTD1000	33
C-DE1254	480	125	AHD-125-1	HDD300 2-4/1	RTD1000	(15)

Features & Values

- ◆ Large (.56" high), easy to read LED display. Provides precise control for consistent plating and etch rates in most aqueous processes.
- ◆ Fluoropolymer (FEP) covered 10-foot (3m), 1000- ohm platinum RTD sensor included standard with the control. Provides extended service in corrosive liquids and can be lengthened with ordinary copper wire.
- ◆ NEMA 1, IP21, flame retardant and gasketed plastic enclosure with stainless steel hardware.
- ◆ Large switching capacities from 20 to 125 amps for up to 600 volts, single or three phase. Larger capacities available, consult factory.
- ◆ 20°F(-7°C) to 140°F(60°C) ambient temperature range
- ◆ ±.25% full span, single digit accuracy
- ◆ 20°F(-7°C) to 140°F(60°C) ambient temperature range

Specifications	
Temperature Range	Adjustable temperature range from -40°F(-40°C) to 999°F(538°C)
Safety Features	Pre-wired P1 terminal blocks Non-volatile memory Programmable high alarm shutdown Sensor short and break protection Programmable high set point limit
Options	◆ Scalable voltage and current inputs ◆ Three wire 100-ohm RTD sensors ◆ Special sensors required for temperatures above 500°F(260°C) ◆ 25-foot (7.6m) and 50-foot (15.2m) sensors ◆ P2, P3 or P8 thermal protection systems ◆ Integrated liquid level control components ◆ Front panel mounted digital timers ◆ Ground fault protection of equipment (GFPE)circuitry. ◆ NEMA 4/4X enclosure (with internal heater for outdoor use)
Certifications	cULus

Model Number Breakdown

C	DE	20	5	E	-L
Control Type	Series	Amperes	Voltage	Control Options	Standard Options
C - Combo	DE	20	2 - 240	E = Easyplug	-R = RTD 100
		40	3 - 380	-VC = 100 ohm, volt, current board	-L = No sensor
		80	4 - 480		-H = high temperature sensor
		125	5 - 415		-25 = 25 foot RTD sensor
			6 - 600		-50 = 50 foot RTD sensor
			7 - 400		-F = FEP sleeved sensor
			8 - 208		-P2 = thermal protector 2 circuitry
			9 - 220		-P3 = thermal protector 3 circuitry
			0 -200		-P8 = thermal protector 8 circuitry
					-*LC** = conductive liquid level
					-*ESP** = capacitive liquid level
					-D = digital timer
					-G = ground fault protection
					-N = NEMA 4X
					-NH = NEMA 4X with heater