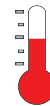# C-DQ Series

Temperature Controls

Dual Set-Point, Precise Control

Large (.56" high) easy to read LED display

Large switching capacities from 20 to 125 amps for up to 600 volts

±.25% full span, single digit accuracy

Single or Three phase

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

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C-DQ SERIES, DIGITAL COMBINATION CONTROLS						
MODEL NUMBER	VOLTS	MAX. AMPS	REPL. RELAY P/N	REPL. TRANS.	REPL. SENSOR P/N	SHIP WGT. Lbs./(kg)
C-DQ202	240	20	AHD-20-1	HDD50 2/1	RTD1000	16
C-DQ204	480	20	AHD-20-1	HDD50 4/1	RTD1000	(7.3)
C-DQ402	240	40	AHD-40-1	HDD50 2/1	RTD1000	17
C-DQ404	480	40	AHD-40-1	HDD50 4/1	RTD1000	(7.7)
C-DQ802	240	80	AHD-80-1	HDD100 2/1	RTD1000	25
C-DQ804	480	80	AHD-80-1	HDD100 4/1	RTD1000	(11.3)
C-DQ1252	240	125	AHD-125-1	HDD300 2/1	RTD1000	33
C-DQ1254	480	125	AHD-125-1	HDD300 4/1	RTD1000	(15)

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ISO 9001:2015 WITH DESIGN CERTIFIED

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.

- 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

- Control transformer included.

Specifications

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

Options

- Scalable voltage and current inputs
- 4-20 mA outputs for process recording
- 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
- Intergrated liquid level control components
- Front panel mounted digital timers
- Ground fault protection of equipment (GFPE) circuitry.
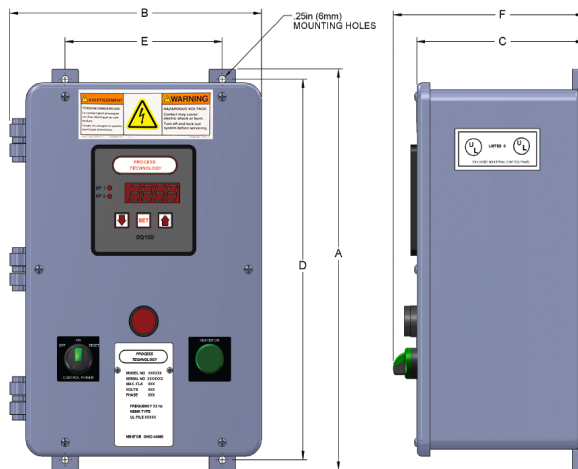- NEMA 4/4X enclosure (with internal heater for outdoor use

Safety Features	□ Pre-wired P1 terminal blocks □ Non-volatile memory □ Programmable high alarm shutdown □ Sensor short and break protection □ Programmable high set point limit □ Security code restricted menu
Certifications	cULus

Dimensions

Dimensions	20-40 Amps	80 Amps	125 Amps
A	14.375" (365mm)	18" (457mm)	20.25" (514mm)
B	9.63" (245mm)	13.75" (349mm)	15.75" (400mm)
C	6.25" (159mm)	7.625" (194mm)	8.375" (213mm)
D	13.625" (346mm)	17" (432mm)	19.25" (489mm)
E	6" (152mm)	10" (254mm)	12" (305mm)
F	7.03" (175mm)	8.4" (213mm)	9.15" (232mm)

*Box dimensions may vary with options

Model Number Breakdown

C	DQ	20	8	E	-L
Control Type	**Series**	**Amperes**	**Voltage**	**Control Option**	**Standard Options**
C - Combo	DQ	20	2 - 240	E = Easyplug	-R = RTD 100
		40	3 - 380	-M = Milliamp output	-H = High temp sensor
		80	4 - 480		-L = No sensor
		125	5 - 415		-__R = Rigid RTD (specify length)
			6 - 600		-25 = 25 foot RTD sensor
			7 - 400		-50 = 50 foot RTD sensor
			8 - 208		-F = FEP sleeved sensor
			9 - 220		-P2 = thermal protector 2 circuitry
			0 - 200		-P3 = thermal protector 3 circuitry
					-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

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