

B-DQ Series

PRODUCT DATA SHEET

Temperature Controls

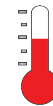
Dual Set-Point, Precise Control

Easy to read (.56" high) dual setpoint LED display

Provides precise control for consistent plating and etch rates in most aqueous processes

±.25% full span, single digit accuracy

Single phase only



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



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B-DQ SERIES, DIGITAL CONTROLS

MODEL NUMBER	VOLTS	MAX. AMPS	REPL. RELAY P/N	REPL. SENSOR P/N	SHIP WGT. Lbs./ (kg)
B-DQ301	120	30	PRD-30-1	RTD1000	16
B-DQ302	240	30	PRD-30-2	RTD1000	(7.3)

Control consists of gasketed plastic enclosure, thermostat, and 30 amp power relay

PROCESS TECHNOLOGY

ISO 9001:2015
WITH DESIGN CERTIFIED

Features & Values

- Easy to read .3" (7.6mm) dual LED displays. Two set points (heating and cooling). Provides precise control for consistent plating.
- 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
- 30 amp switching capacities for 120 to 240 volts
- 20°F(-7°C) to 140°F(60°C) ambient temperature range
- ±.25% full span, single digit accuracy
- Single phase only

Specifications

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

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.
- Integrated liquid level control components.
- Front panel mounted digital timers
- Pre-wired outlets for plug-in heaters (16 amp max load)
- Ground fault protection of equipment (GFPE) circuitry
- Combination controls available for three phase service and larger heater loads
- NEMA 4/4X enclosure (with internal heater for outdoor use)

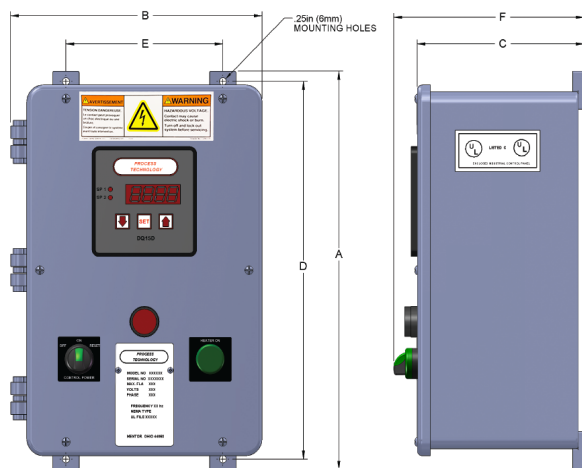
Safety Features

- Pre-wired P1 terminal blocks
- Non-volatile memory
- Programmable high or low temperature alarm output
- Sensor short and break protection
- Programmable high set point limit
- Security code restricted menu.

Certifications

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Dimensions



Dimensions	30 Amps
A - Overall height w/mounting	14.375" (365mm)
B - Overall width	9.63" (245mm)
C - Enclosure Depth	6.25" (159mm)
D - Enclosure Height	13.625" (346mm)
E - Mounting hole centers	6" (152mm)
F - Overall Depth	7.25" (184mm)

Model Number Breakdown

B-	DQ	30	2	E	-H
Control Type	Series	Amperes	Voltage	Control Option	Standard Options
B -	DQ	30	1 - 120 2 - 240 8 - 208 9 - 220 0 - 200	E = Easyplug -MA = Milliamp output	-R = RTD 100 -H = High temp sensor -L = No sensor - R = Rigid RTD (specify length) -25 = 25 foot RTD sensor -50 = 50 foot RTD sensor -F = FEP sleeved sensor -P2 = thermal protector 2 circuitry -P3 = thermal protector 3 circuitry -P8 = thermal protector 8 circuitry -LC** = conductive liquid level -ESP** = capacitive liquid level -G = ground fault protection -D = digital timer -N = NEMA 4X -NH = NEMA 4X with heater

PROCESS TECHNOLOGY