



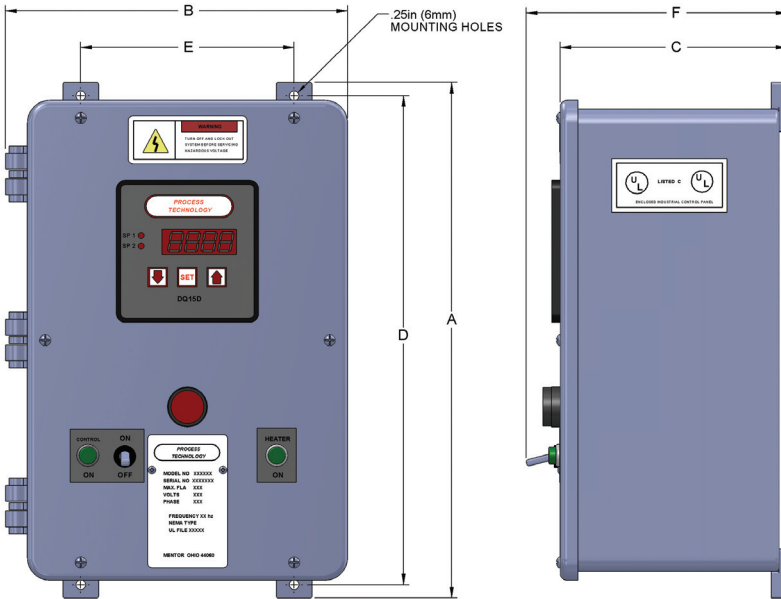
DQ SERIES, DIGITAL COMBINATION CONTROLS							
MODEL NUMBER	VOLTS	MAX. AMPS	REPL. RELAY P/N	REPL. RELAY P/N LESS TRANS.	REPL. TRANS.	REPL. SENSOR P/N	SHIP WGT. Lbs./(kg)
DQ302	240	30	AH30-1	AH30-2	HD50 2/1	RTD1000	16
DQ304	480	30	AH30-1	---	HD50 4/1	RTD1000	(7.5)
DQ502	240	50	AH50-1	AH50-2	HD50 2/1	RTD1000	17
DQ504	480	50	AH50-1	---	HD50 4/1	RTD1000	(8)
DQ752	240	75	AH75-1	AH75-2	HD100 2/1	RTD1000	23
DQ754	480	75	AH75-1	---	HD100 4/1	RTD1000	(10.5)
DQ902	240	90	AH90-1	AH90-2	HD100 2/1	RTD1000	25
DQ904	480	90	AH90-1	---	HD100 4/1	RTD1000	(11.5)
DQ1202	240	120	AH120-1	AH120-2	HD100 2/1	RTD1000	27
DQ1204	480	120	AH120-1	---	HD100 4/1	RTD1000	(12.5)
DQ1502	240	150	AH150-1	AH150-2	HD150 2/1	RTD1000	33
DQ1504	480	150	AH150-1	---	HD150 4/1	RTD1000	(15)

Combination control consists of gasketed plastic enclosure, thermostat, contactor and optional control transformer. To omit stepdown transformer, add "LT" to end of model number.

Product Features and Benefits:

- ◆ **IMPROVES PROCESS CONTROL:** Large (.56" high), easy to read LED display. Two set points (heating and cooling). Provides precise control for consistent plating and etch rates in most aqueous processes.
- ◆ **TEMPERATURE SENSOR:** 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 hookup wire.
- ◆ **CORROSION RESISTANT ENCLOSURE:** NEMA 1, IP23, gasketed plastic enclosure with sealed tactile switches and stainless steel hardware.
- ◆ **CERTIFICATIONS:** cULus.
- ◆ **CAPACITIES:**
 - Large switching capacities from 30 to 150 amps for 120 to 600 volts.
 - Single pole, double throw switch rated at 2 amps for cooling loads.
 - Adjustable temperature range from -40°F (-40°C) to 999°F (538°C).
 - +/- .25% full span, single digit accuracy.
 - 20°F (-7°C) to 130°F (54°C) ambient temperature range.
 - Programmable standby temperature setting for overnight control and energy savings.
 - Single or three phase.
 - Control transformer required above 240 volts and recommended for 200 to 240 volt service.
- ◆ **SAFETY FEATURES:**
 - Pre-wired P1 terminal blocks.
 - Non-volatile memory.
 - Programmable high alarm shutdown.
 - Sensor short and break protection.
 - Programmable high setpoint limit.
 - Security code restricted menu.
- ◆ **OPTIONS AVAILABLE (consult factory):**
 - 25-foot (7.6m) and 50-foot (15.2m) sensors.
 - Pre-wired outlets for plug-in heaters (some sizes).
 - Ground fault protection (GFP) circuitry.
 - P2 or P3 thermal protection systems.
 - Integral liquid level control components.
 - Front panel mounted digital timers.
 - Three wire 100-ohm RTD sensors.
 - Special sensors (required for temperatures above 500°F [260°C]).
 - Scalable voltage and current inputs.
 - 4-20 mA outputs for process recording.
 - CE compliance.
 - Outdoor enclosures.

DIMENSIONS



Dimensions	30-50 Amps	75-120 Amps	150 Amps
A	14.375" (365mm)	18" (457mm)	20.25" (514mm)
B	6" (152mm)	10" (254mm)	12" (305mm)
C	6.25" (159mm)	7.625" (194mm)	8.375" (213mm)
D	13.625" (346mm)	17" (432mm)	19.25" (489mm)
E	9.63" (245mm)	13.75" (349mm)	15.75" (400mm)
F	7.03" (175mm)	8.4" (213mm)	9.15" (232mm)

DQ COMBINATION CONTROL ORDERING INFORMATION

Series	Amperes	Voltage	Stepdown Transformer	Standard Options
DQ	30 50 75 90 120 150 1 = 120 2 = 240 3 = 380 4 = 480 5 = 415 6 = 600 7 = 400 8 = 208 9 = 220 0 = 200		-LT = no transformer (not for voltages higher than 240V)	-P2 = thermal protector 2 -P3 = thermal protector 3 -P8 = thermal protector 8 -LC = conductive liquid level -ESP = capacitive liquid level terminals -DTS = digital timer -GFP = ground fault detection -25 = 25 foot RTD sensor -50 = 50 foot RTD sensor -TEF = additional FEP sensor sleeve -H = high temperature sensor -E = outlet for plug-in heater -MA = milliamp output (recording) -CE = CE compliant model

ORDERING EXAMPLE:

DQ302-LT-P2

DQ series combination control, 30 amps, 240 volt, less step down transformer, P2 thermal protector option.

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