



| 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.

B-DQ Series, Control 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 wire.

CORROSION RESISTANT ENCLOSURE:

- ◆ NEMA 1, IP21, flame retardant and gasketed plastic enclosure with stainless steel hardware.

CAPACITIES:

- ◆ 30 amp switching capacities for 120 to 240 volts.
- ◆ Adjustable temperature range from -40°F(-40°C) to 999°F(538°C).
- ◆ ±.25% full span, single digit accuracy.
- ◆ 20°F(-7°C) to 140°F(60°C) ambient temperature range.
- ◆ Single phase only.

CERTIFICATIONS: cULus

SAFETY FEATURES:

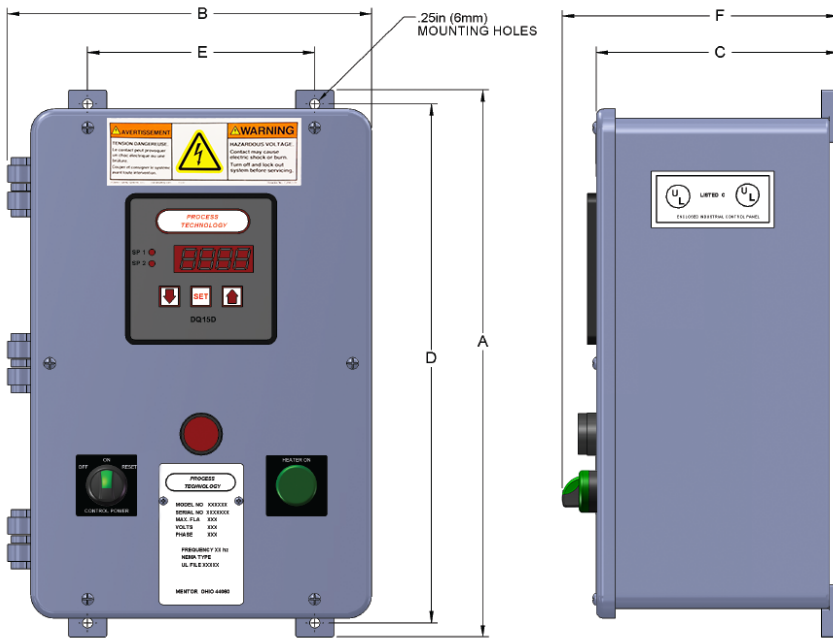
- ◆ Pre-wired P1 terminal blocks.
- ◆ Non-volatile memory.

- ◆ Programmable high alarm shutdown.
- ◆ Sensor short and break protection.
- ◆ Programmable high set point limit.
- ◆ Security code restricted menu.

OPTIONS AVAILABLE (consult factory):

- ◆ 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).

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) |

*Box dimensions may vary with options.

B-DQ CONTROL ORDERING INFORMATION

| 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 |

ORDERING EXAMPLE:

B-DQ302-P2

B-DQ control in enclosure, 30 amps, 240 volt, P2 thermal protection.

