



TEMPERATURE CONTROLS



B-DSL SERIES, DIGITAL CONTROLS					
CONTROL MODEL NUMBER	VOLTS	MAX. AMPS	REPL. RELAY P/N	REPL. SENSOR P/N	SHIP WGT. Lbs./ (kg)
B-DSL301	120	30	PRD-30-1	RTD1000	16
B-DSL302	240	30	PRD-30-2	RTD1000	(7.3)

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

B-DSL Series, Control Features and Benefits

IMPROVES PROCESS CONTROL:

- ◆ Easy to read .3" (7.6mm) dual LED displays. Two set points (heating and cooling). Provides precise control for consistent plating.

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 from 120 to 240 volts.
- ◆ Single pole, single-throw switch rated at 3 amps for cooling loads.
- ◆ Adjustable temperature range from -328°F(-200°C) to 4208°F(2320°C).
- ◆ ±.25% full span, single digit accuracy.
- ◆ 20°F(-7°C) to 140°F(60°C) ambient temperature range.
- ◆ Single phase only.

SPECIAL FEATURES:

- ◆ Auto tune PID, PID or On/Off control with Auto/Manual operation.

CERTIFICATIONS: cULus

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.

OPTIONS AVAILABLE (consult factory):

- ◆ Scalable voltage and current inputs.
- ◆ 4-20 mA or 0-10VDC outputs for process recording.
- ◆ 4-20 mA or 15VDC control outputs.
- ◆ RS485 communication protocol.
- ◆ Three wire 100-ohm RTD sensors.
- ◆ Type J, K, T, and R thermocouples.
- ◆ 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	16.04" (408mm)
B - Overall width	14.04" (357mm)
C - Enclosure Depth	9.28" (236mm)
D - Enclosure Height	15.27" (388mm)
E - Mounting hole centers	10.56" (268mm)
F - Overall Depth	10.28" (261mm)

*Box dimensions may vary with options.

B-DSL CONTROL ORDERING INFORMATION

Control Type	Series	Amperes	Voltage	Control Option	Standard Options
B-	DSL	30	1 - 120 2 - 240 8 - 208 9 - 220 0 - 200	E = Easyplug MAR = Milliamp output recording RS = RS485 output VC = 15VDC control output NC VC-RS = 15VDC output/RS485 output VR = Voltage output recording	-R = RTD100 -J = J Type TC -K = K Type TC -L = Less sensor -H = High temp sensor -25 = 25 foot sensor -50 = 50 foot 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 -D = digital timer G = ground fault protection -N = NEMA 4X -NH = NEMA 4X with heater

ORDERING EXAMPLE:

B-DSL301

DSL control in enclosure, 30 amps, 120 volt.

