PRODUCT DATA SHEET

B-DSL Series

Temperature Controls

Dual Set-Point, Precise Control

- Easy to read .3” (7.6mm) dual setpoint LED display
- Auto tune PID, PID or On/Off control with Auto/Manual operation
- ±.25% full span, single digit accuracy
- Provides precise control for consistent plating

Adjustable temperature range from -328°F (-200°C) to 4208°F (2320°C)

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B-DLC SERIES, DIGITAL CONTROLS

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>VOLTS</th>
<th>MAX. AMPS</th>
<th>REPL. RELAY P/N</th>
<th>REPL. SENSOR P/N</th>
<th>SHIP WGT. Lbs./kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-DLC301</td>
<td>120</td>
<td>30</td>
<td>PRD-30-1</td>
<td>DLC-10L</td>
<td>16</td>
</tr>
<tr>
<td>B-DLC302</td>
<td>240</td>
<td>30</td>
<td>PRD-30-2</td>
<td>DLC-10L</td>
<td>(7.3)</td>
</tr>
</tbody>
</table>

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

ISO 9001:2015 WITH DESIGN CERTIFIED
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

Single pole, single-throw switch rated at 3 amps for cooling loads

20°F(-7°C) to 140°F(60°C) ambient temperature range

±.25% full span, single digit accuracy

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

Temperature Range
Adjustable temperature range from -328°F(-200°C) to 4208°F(2320°C) (high temperature sensor required).

Options
- 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

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.

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

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>20-40 Amps</th>
<th>80-125 Amps</th>
</tr>
</thead>
<tbody>
<tr>
<td>A - Overall height</td>
<td>16.04” (406mm)</td>
<td>16.04” (406mm)</td>
</tr>
<tr>
<td>B - Overall Width</td>
<td>14.04” (357mm)</td>
<td>16.04” (408mm)</td>
</tr>
<tr>
<td>C - Enclosure Depth</td>
<td>9.28” (236mm)</td>
<td>9.28” (236mm)</td>
</tr>
<tr>
<td>D - Enclosure Height</td>
<td>15.27” (388mm)</td>
<td>17.27” (439mm)</td>
</tr>
<tr>
<td>E - Mounting hole centers</td>
<td>10.56” (268mm)</td>
<td>12.56” (319mm)</td>
</tr>
<tr>
<td>F - Overall Depth</td>
<td>10.28” (261mm)</td>
<td>10.28” (261mm)</td>
</tr>
</tbody>
</table>

Box dimensions may vary with options

Model Number Breakdown

<table>
<thead>
<tr>
<th>Control Type</th>
<th>Series</th>
<th>Amperes</th>
<th>Voltage</th>
<th>Control Option</th>
<th>Standard Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-</td>
<td>DSL</td>
<td>30</td>
<td>1-120</td>
<td>E = Easyplug</td>
<td>R = RTD100</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2-240</td>
<td>MAX = Millamp output recording</td>
<td>J = J Type TC</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>8-208</td>
<td>RS = RS485 output</td>
<td>K = K Type TC</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>9-220</td>
<td>VC = 15VDC control output</td>
<td>L = Less sensor</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>9-200</td>
<td>VR = 15VDC output/RS485 output</td>
<td>H = High temp sensor</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>VR = Voltage output recording</td>
<td>25 = 25 foot sensor</td>
</tr>
</tbody>
</table>

- 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
- DT = digital timer
- G = ground fault protection
- N = NEMA 4X
- NH = NEMA 4X with heater