LIQUITRON™ DC4000 SERIES
Conductivity Controller

Applications
• Cooling Tower
• Boiler
• Closed loop systems

The Liquitron DC4000 Series Conductivity Controller is a microprocessor based control system that will operate in a variety of water treatment applications.

The DC4000 provides a set point and relay for conductivity control, and a variety of timer functions to control chemical addition.

Programming this controller is simple and is accomplished using only three keys.

The backlit LCD display and LEDs provide visual indication of operating conditions and equipment status.

Features
- 0-20,000 µS or Selectable PPM/TDS Ratio
- High and Low Alarm with Relay
- Temperature Display in °C or °F
- 4-20 mA Recorder Output (Standard)
- Flow Switch Compatible
- Backlit LCD Alpha / Numeric Display
- UL and CUL Certified
- CE Approval (optional)

Feed Modes
- Feed Limit (Feed and Bleed)
  1-999 minutes
- Percentage of Time (Reset)
  1–100 minute cycle
  1–100% on-time
- Percentage of Control (Feed after Bleed)
  1–100% of previous bleed cycle
  1-999 minute limit
- External Trigger (Pulse)
  1–999 seconds on-time
  1–100 counter

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Enclosure
- NEMA 12X Type (prewired version) Hardwiring makes the unit suitable for NEMA 4X applications
- Material
  Housing - Flame retardant, molded TPE
  Cover: Clear molded polycarbonate, padlockable
- Environment
  32° F to 122° F (0° C to 50° C)
  0% to 95% relative humidity (non-condensing)
- Hardware
  115 VAC, 50/60 Hz units provided with a 6 ft (2 m) grounded power cord and plug, and two (2) 1 ft (30 cm) output power cords with grounded receptacles for controlled devices.
  230 VAC, 50/60 Hz units provided with 6 ft (2 m) grounded power cord and plug, and throughput connectors for hardwire connection of controlled devices.

Literature #53937.A (Previously 1740) 6/2015
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Liquitron DC4000 Series Specifications

**Electrical**

<table>
<thead>
<tr>
<th>Input</th>
<th>115 VAC, 50/60 Hz or 230 VAC, 50/60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control Output</td>
<td>Two (2) relays, 10 Amp @115 VAC (5Amp @230 VAC), Unit fused for 10 amp total load</td>
</tr>
<tr>
<td>Signal Input</td>
<td>Two (2) PG-9 throughput connectors are provide for connection of flow meter and flow switch. A 4-pin microphone jack is provide for conductivity.</td>
</tr>
<tr>
<td>Signal Output</td>
<td>4–20 mA spannable output for conductivity (non-isolated)</td>
</tr>
</tbody>
</table>

**Operational**

<table>
<thead>
<tr>
<th>Display</th>
<th>16 character backlit LCD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conductive Scale</td>
<td>0-20,000 µs or 0-6,000 PPM/TDS</td>
</tr>
<tr>
<td>LED Indicators</td>
<td>Power control, Alarm, No flow &amp; Feed</td>
</tr>
<tr>
<td>Differential (hysteresis)</td>
<td>Keypad adjustable</td>
</tr>
<tr>
<td>Feed Timers (selectable)</td>
<td>Pulse: 1-999 seconds run-time, 1-100 count</td>
</tr>
<tr>
<td></td>
<td>% of Time: 1-100 minute cycle, 1-100% on-time</td>
</tr>
<tr>
<td></td>
<td>Limit: 1-999 minute run time</td>
</tr>
<tr>
<td></td>
<td>% of Bleed: 1-100% of previous bleed</td>
</tr>
<tr>
<td></td>
<td>1-999 minute limit</td>
</tr>
<tr>
<td>Set Point</td>
<td>Rising or falling (selectable)</td>
</tr>
<tr>
<td>Boiler Timer</td>
<td>Interval: 1-999 minutes</td>
</tr>
<tr>
<td></td>
<td>Duration: 1-999 seconds</td>
</tr>
<tr>
<td></td>
<td>Trap Time: 1-999 seconds</td>
</tr>
</tbody>
</table>

**Dimensions**

- Front: 7.00" (178 mm) x 9.90" (252 mm)
- Bottom: 0.27" (6.8 mm) x 4.31" (109 mm)
- Side: 0.27" (6.8 mm) x 4.31" (109 mm)