

# Liquitron™ DC4000 Series Conductivity Controller

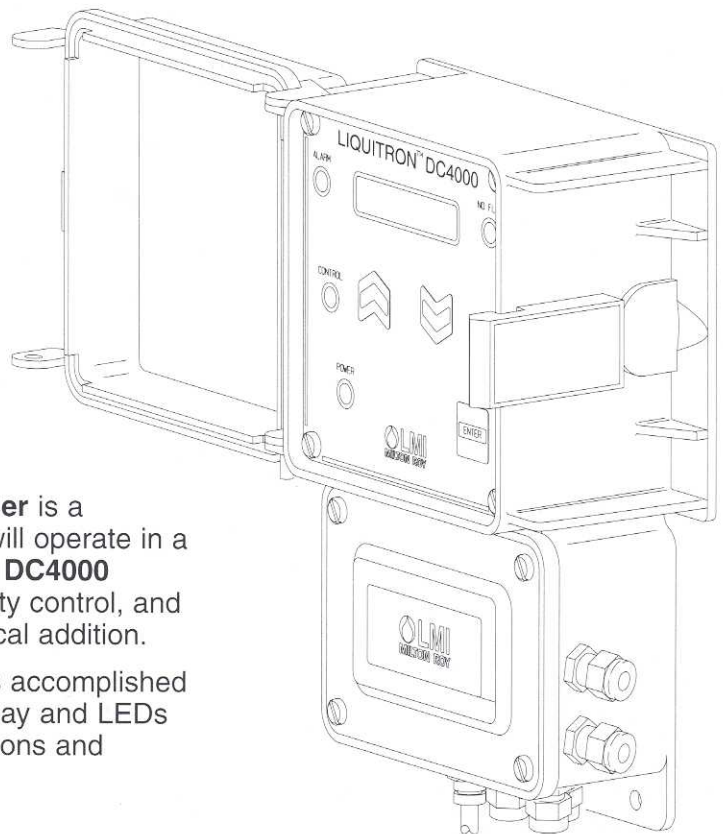
## Applications

- Cooling Towers
- Boilers
- Closed Loop Systems

## Description

The **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

- 0–10,000  $\mu$ S or 0–6600 PPM/TDS Display
- High and Low Alarm with Relay
- Temperature Display in  $^{\circ}$ C
- 4–20mA Recorder Output (Standard)
- Flow Switch Compatible
- Backlit LCD Alpha / Numeric Display

## Feed Modes

- Lock Out or 'Limit' (Feed and Bleed)  
1–99 minutes
- Percentage of Time (reset)  
1–99 minute cycle  
1–99% on-time
- Percentage of Control (Feed after Bleed)  
1–99% of previous bleed cycle
- External Trigger (pulse)  
1–999 seconds on-time  
1–99 counter



LMI - DOSAPRO MILTON ROY  
Tél. : (33) 32.68.30.59 / Fax : (33) 32.68.30.97

LMI - USA  
Tél. : (508) 263-9800 / Fax : (508) 264-9172

# DC4000™ Series Specifications

## Enclosure

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### Housing

IP65 wall mounting, flame retardant molded TPE.

### Cover

Clear molded polycarbonate, lockable.

### Environment

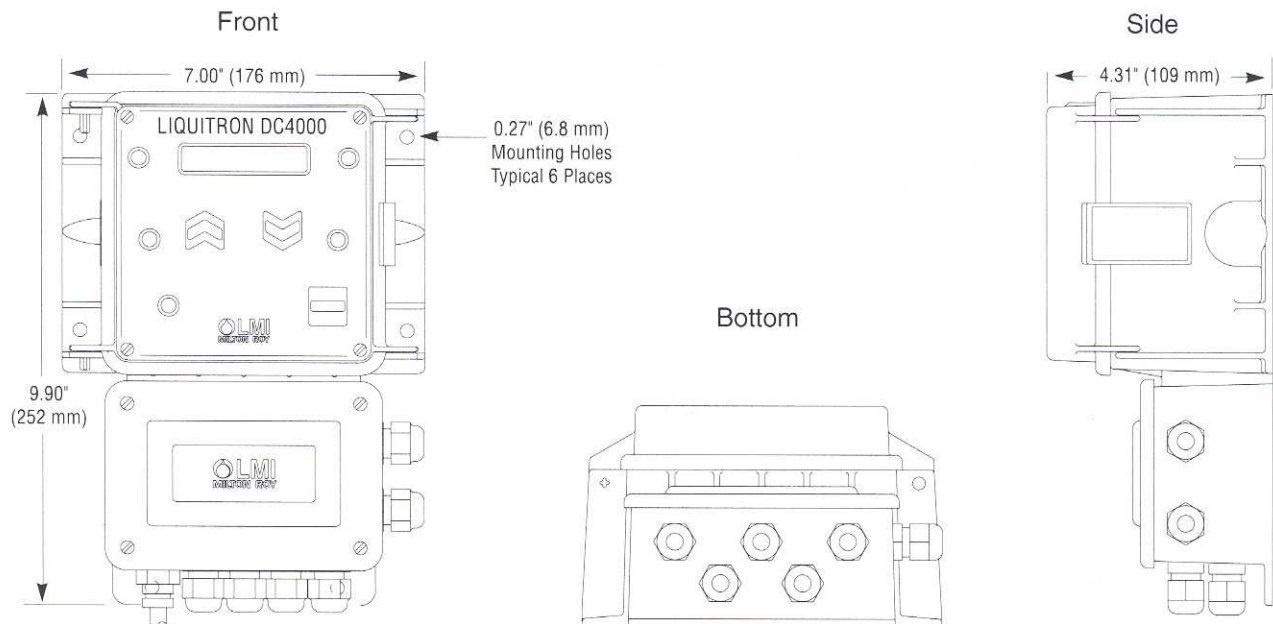
-40°C to 60°C (-40° F to 140° F)  
Zero to 97% Relative Humidity

### Hardware

115VAC / 230VAC units provided with 6 ft. (2m) grounded power cord & plug and throughput connectors for hardwire connection of controlled devices.

## Dimensions

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## Electrical

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### Input

115VAC, 50/60Hz  
or  
230VAC, 50/60Hz

### Control Output

2 relays, 10amp @ 115VAC, 5A @ 230VAC  
Unit fused for 10amp total load.

### Signal Input

2 PG-9 throughput connectors are provided for connection of flow meter and flow switch.

### Signal Output

4-20mA spannable output for conductivity.

## Operational

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### Display

16 Character Backlit LCD

### Conductivity Scale

0-10,000  $\mu$ S or 0-6600 PPM/TDS, selectable

### LED Indicators

Power, Control, Alarm, No Flow and Feed

**Differential (hysteresis):** Keypad adjustable

### Feed Timers (selectable)

Pulse: 1-999 seconds run-time, 1-99 counts  
% of Time: 1-99 minute cycle, 1-99% on-time  
Limit: 1-99 minute run time  
% of Bleed: 1-99% of previous bleed

**Set Point :** Rising or falling (selectable)

### Boiler Timer

Interval: 1-99 minutes  
Duration: 1-999 seconds