LIQUITRON™ DC4000 SERIES

DATA SHEET

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

Can be special ordered with CE Approval

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.

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Liquitron DC4000 Series Specifications

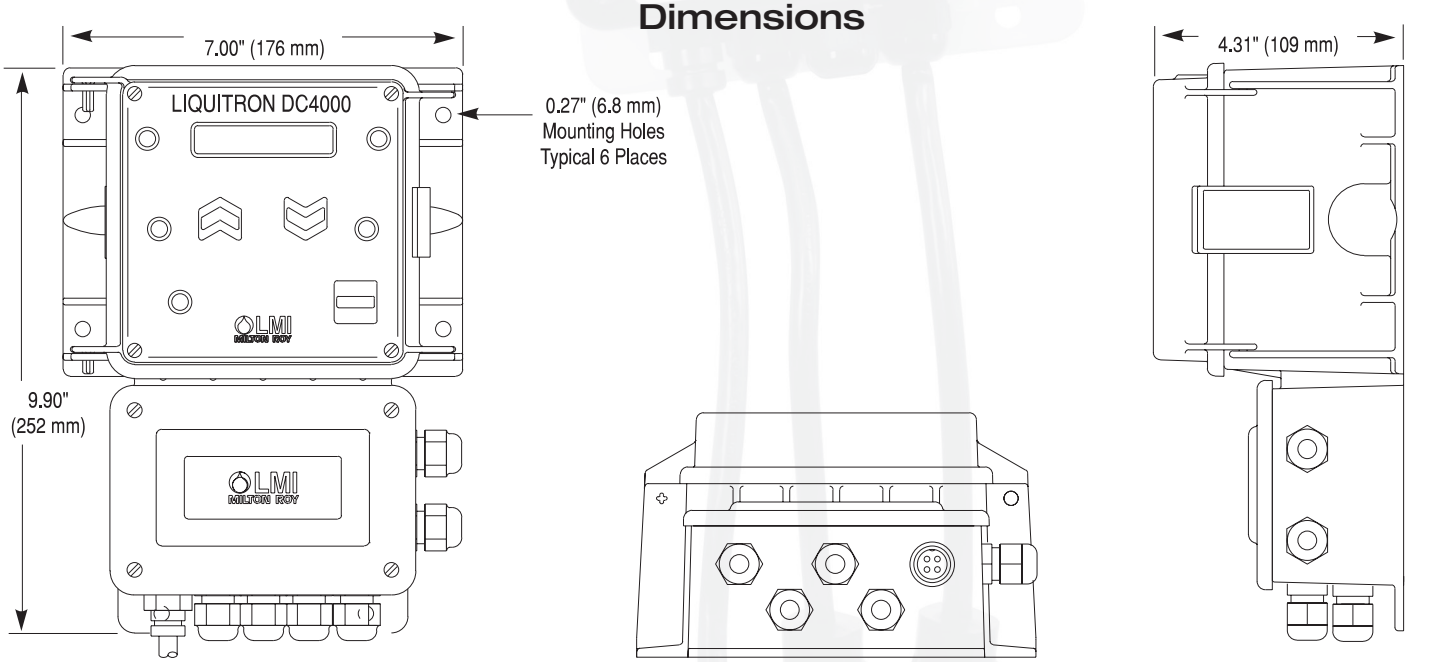
Electrical

Input	115 VAC, 50/60 Hz or 230 VAC, 50/60 Hz
Control Output	Two (2) relays, 10 Amp @115 VAC (5Amp @230 VAC), Unit fused for 10 amp total load
Signal Input	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.
Signal Output	4–20 mA spannable output for conductivity (non-isloated)

Operational

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

Dimensions



FRONT

BOTTOM

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