

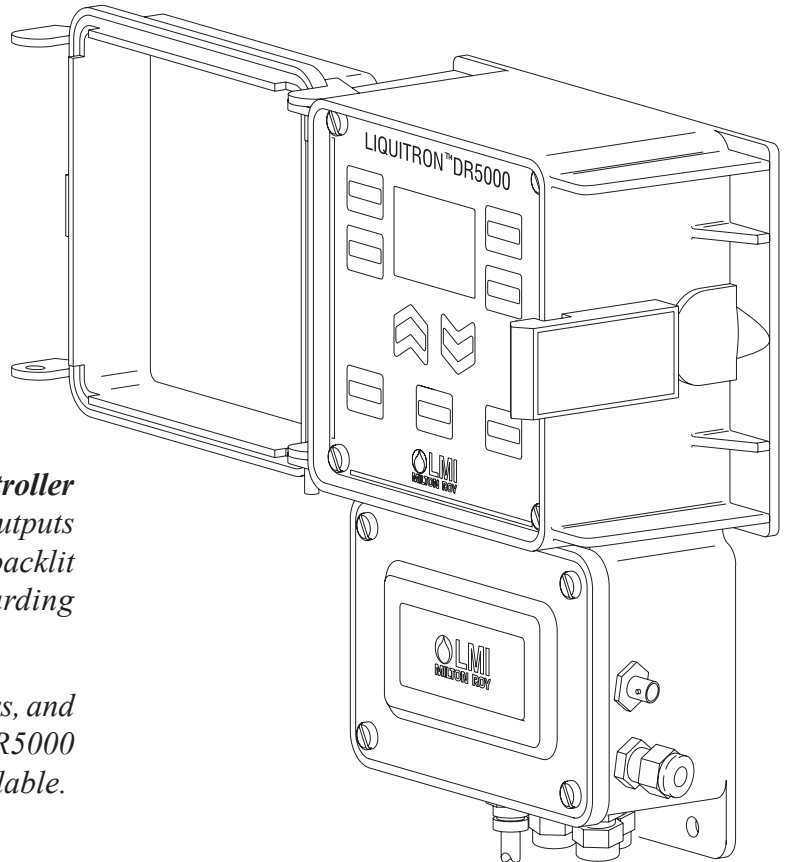
## Liquitron™ DR5000 Series ORP Controller

### Applications




- Cooling Water
- Waste Treatment
- Surface Finishing
- Chlorination
- De-Chlorination
- Food Processing

*The **DR5000** is a dual-channel **ORP (redox) Controller** providing either relay or proportional pulse outputs to drive chemical metering pumps. A custom backlit display provides constant information regarding controller and system conditions.*

*High and low alarm points, delay and limit timers, and other user programmable features make the **DR5000** the most adaptive ORP (redox) Controller available.*



### Features

- Custom Backlit LCD Display
- High and Low Set Points
- Limit Timers for Each Output
- $\pm 2000$  mV Scale
- ORP Programmable Response Delay
- 4–20 mA Output (Option)
- Proportional Pulse or Relay Output both Standard
-  ,  and  certified

### Display Items

- Current mV Value
- Current mA Output Level
- Current Pump Speed
- Timer Settings and Readings
- Alarm Conditions



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## Enclosure

### NEMA 12X Type (prewired version)

Hard wiring makes the unit suitable for NEMA 4X applications

### Material (Housing)

Flame retardant, molded TPE

### Material (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 & 230 VAC Proportional units provided with a 6 ft (2 m) grounded power cord & plug and two 10 ft (3 m) output cables for direct connection to “non-ROYTRONIC” 7 Series and 9 Series LMI pumps. A different version of the Controller is available with compatible cables for ROYTRONIC® Series 7 and ROYTRONIC EXCEL™ Series 8 and Series 9 metering pumps

115 VAC On/Off units provided with 6 ft (2 m) grounded power cord & plug and two 1 ft (30 cm) output power cords with grounded receptacles for pumps.

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

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## Electrical

### Input

115 VAC, 50/60Hz or

230 VAC, 50/60Hz

### Control Output (On/Off)

Five (5) relays, 10 amp @ 115 VAC, 5 amp @ 230 VAC,

Unit fused for 10 amp total load

### Control Output (Proportional)

Pulse output signal (100ms pulse width), open collector

### Alarm Output

Switch closure

2 relays, 10amp @ 115 VAC (5amd @ 230 VAC) 1 relay for pump A, 1 relay for pump B

### Signal Input

BNC type

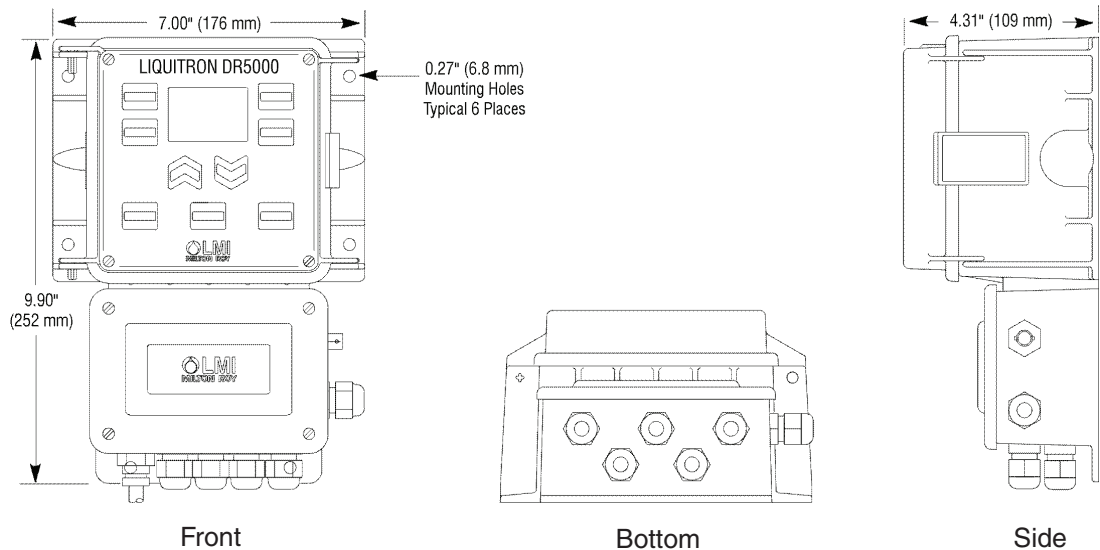
### Data Output

4–20 mA spanning the ORP range

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## Dimensions



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## Operational

### Display

Custom multiline backlit LCD

### ORP Scale

± 2000 millivolts

### Limit Timers

Adjustable 0-11 hours

### Differential (hysteresis)

Keypad adjustable