

# LIQUITRON™ DP5000 SERIES

## pH Controller

## DATA SHEET

### Applications

- Cooling Water
- Waste Neutralization
- Process Control
- Environmental
- Metal Finishing

The **Liquitron DP5000** is a dual channel **pH Controller** providing either relay or proportional pulse outputs to drive chemical metering pumps. A custom backlit display provides constant information regarding controller conditions.

High and low alarm points, delay and limit timers, and other programmable features make the DP5000 the most adaptive pH controller available.

### Features

- Custom Backlit LCD Display
- Temperature Reading
- High and Low Set Points
- Proportional Pulse or Relay Output both standard
- Limit Timers for Each Output
- pH Programmable Response Delay
- Single and Dual Point Calibration
- 4-20 mA Output (Option)
- 0-14 pH Scale

### Display Items

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

### 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, pad lockable
Environment	32° F to 122° F (0° C to 50° C) 0% to 95% relative humidity (non-condensing)
Hardware	115 VAC proportional units provided with a 6 ft (2 m) grounded power cord & plug and two (2) 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 (2) 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.



## Liquitron DP5000 Series Specifications

### Electrical

Input	115 VAC, 50/60 Hz or 230 VAC, 50/60 Hz
Control Output (on/off)	2 relays, 10 Amp @115 VAC (5 Amp @230 VAC), Unit fused for 10 amp total load
Control Output (proportional)	Low voltage modulated pulse (two)
Alarm Output	Switch closure, 2 relays, 10 Amp @ 115 VAC (5 Amp @ 230 VAC) 1 relay for high alarm, 1 relay for low alarm
Signal Input	BNC type
Data Output	4–20 mA spanning the pH range

### Operational

Display	Custom multiline backlit LCD
Temperature	Process temperature range 32° F to 212° F (0° C to 100° C)
pH Scale	0-14 pH units, 0.01 resolution
Limit Timers	Adjustable 0-11 hours
Differential (hysteresis)	Keypad adjustable

### Dimensions

