

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

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|----------------------------------|---|
| 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

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| 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

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|---------------------------|--|
| 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

