

PH control unit ICF-CTRL-PH

INTEGRATED CIRCUITS

ELECTROINC INDUSTRIES

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1.Overview

The ICF-CTRL-PH is designed to monitor and regulate the pH level in various liquid processes. It features rapid on/off control for dosing and supports multiple control strategies including proportional, integral, derivative (PID), and feed-forward control. This unit is ideal for applications in water treatment, food processing, hydroponics, and industrial waste management.

2.Specification

- Feed Tanks: Integrated tanks for process fluid storage.
- Pumps: High-quality pumps for fluid circulation and level adjustment.
- Stirrer: Motorized stirrer for maintaining homogeneity in the tank.
- pH Electrode: Accurate pH measurement for monitoring system conditions.
- Flowmeters: Digital flowmeters for real-time flow rate monitoring.
- Control Instruments: Includes basic instruments for automatic level regulation.
- Valves: Electrically actuated valves for precise control.
- Structure: Compact and modular frame with accessible connections.
- Accessories: Complete with all necessary tubing, fittings, and electrical wiring for plug-and-play operation.

3.Experiments to be done

- 1. Closed-loop pressure control.
- 2. Proportional (P) control.
- 3. Proportional-Integral (PI) control.
- 4. Proportional-Derivative (PD) control.
- 5. Proportional-Integral-Derivative (PID) control.



ICF-CTRL-PH