INTEGRATED CIRCUITS

ELECTROINC INDUSTRIES

Level Control Unit

ICF-CTRL-LVC

2025

1.Overview

The ICF-CTRL-LVC is designed to monitor and regulate fluid levels in response to sensor inputs. It compares real-time level data to preset values and adjusts system parameters by actuating valves accordingly. The unit is ideal for demonstrating automatic level control in industrial and vehicle-based systems.

ICF-CTRL-LVC

2.Specification

- 4.25-liter Process tank, with overflow, mounted above 8-liter sump tank.
- Level sensor range 0-150mm H20.
- Two discharge ports, one with remote controlled solenoid valve and one with a manually controlled value.
- Four interchangeable orifices for use with the discharge valves.
- Variable speed submersible centrifugal pump.
- Supplied with educational software for PID control as well as data logging.

3.Experiments to be done

1. Open-loop pressure control.
2. ON/OFF Control.
3. Proportional (P) control.
4. Proportional-Integral (PI) control.
5. Proportional-Derivative (PD) control.
6. Proportional-Integral-Derivative (PID) control.

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