

AUTOMATIC WATER LEVEL CONTROLLER

PROGRAMMABLE LOGIC CIRCUIT

Submitted by

The Students of Section A from Electrical Technology Department – 2021 Batch

Semester Project Report

Department of Electrical Technology

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ABSTRACT

The purpose of this project is to demonstrate the automatic control of water level in a tank using Programmable Logic Controller (PLC). This system prevents overflow and dry-run conditions by automatically switching a water pump ON or OFF based on sensor signals. It simulates a real-world automation system used in homes, buildings, and industries where efficient water management is crucial.

INTRODUCTION

In this project, we present an automated solution for tank water level monitoring and control using PLC. The system uses two water level sensors – one at the lower level and one at the upper level. When the water level falls below the lower sensor, the PLC turns the pump ON. When it reaches the upper sensor, the PLC turns the pump OFF. The logic is programmed into the PLC using a ladder diagram. This project mimics the operation of intelligent pumping systems used in domestic and industrial applications to conserve water and reduce human involvement.

CIRCUIT DIAGRAM

The ladder diagram for the water level control system includes:

- I0.0: Low-level sensor input
- I0.1: High-level sensor input
- Q0.0: Pump output (via relay)

Ladder Diagram Example (Image Source: ResearchGate):

<https://www.researchgate.net/profile/Simba-Hapazari/publication/377442434/figure/fig6/AS:1227349302630406@1716544712096/Ladder-Diagram-Water-Level-Control.png>

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