

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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Table of Contents Simple Automatic Water Level Controller Project Report

1. Understanding the eBook Simple Automatic Water Level Controller Project Report
 - The Rise of Digital Reading Simple Automatic Water Level Controller Project Report
 - Advantages of eBooks Over Traditional Books
2. Identifying Simple Automatic Water Level Controller Project Report
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Simple Automatic Water Level Controller Project Report
 - User-Friendly Interface
4. Exploring eBook Recommendations from Simple Automatic Water Level Controller Project Report

- Personalized Recommendations
- Simple Automatic Water Level Controller Project Report User Reviews and Ratings
- Simple Automatic Water Level Controller Project Report and Bestseller Lists
- 5. Accessing Simple Automatic Water Level Controller Project Report Free and Paid eBooks
 - Simple Automatic Water Level Controller Project Report Public Domain eBooks
 - Simple Automatic Water Level Controller Project Report eBook Subscription Services
 - Simple Automatic Water Level Controller Project Report Budget-Friendly Options
- 6. Navigating Simple Automatic Water Level Controller Project Report eBook Formats
 - ePub, PDF, MOBI, and More
 - Simple Automatic Water Level Controller Project Report Compatibility with Devices
 - Simple Automatic Water Level Controller Project Report Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Simple Automatic Water Level Controller Project Report
 - Highlighting and Note-Taking Simple Automatic Water Level Controller Project Report
 - Interactive Elements Simple Automatic Water Level Controller Project Report
- 8. Staying Engaged with Simple Automatic Water Level Controller Project Report
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Simple Automatic Water Level Controller Project Report
- 9. Balancing eBooks and Physical Books Simple Automatic Water Level Controller Project Report
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Simple Automatic Water Level Controller Project Report
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Simple Automatic Water Level Controller Project Report
 - Setting Reading Goals Simple Automatic Water Level Controller Project Report
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Simple Automatic Water Level Controller Project Report

- Fact-Checking eBook Content of Simple Automatic Water Level Controller Project Report
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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