

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

Sir Syed University of Engineering and Technology, Karachi

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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Kawainui Marsh Flood Control Project, Detailed Project Report, Oahu ,1992 **Tensas River Basin Flood Control Project ,1981** **Federal Energy Regulatory Commission Reports** United States. Federal Energy Regulatory Commission,1993 **Energy Research Abstracts** ,1977 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes Index to Federal Aid Publications in Sport Fish and Wildlife Restoration and Selected Cooperative Research Project Reports, March 1968 United States. Department of the Interior. Library,1968 **Index to Federal Aid Publications in Sport Fish and Wildlife Restoration and Selected Cooperative Research Project Reports, March 1968** United States. General Land Office,1968 Cities and Their Vital Systems Advisory Committee on Technology and Society,1989 Cities and Their Vital Systems asks basic questions about the longevity utility and nature of urban infrastructures analyzes how they grow interact and change and asks how when and at what cost they should be replaced Among the topics discussed are problems arising from increasing air travel and airport congestion the adequacy of water supplies and waste treatment the impact of new technologies on construction urban real estate values and the field of telematics the combination of computers and telecommunications that makes money machines and national newspapers possible **FAO Documentation: Current Index** Food and Agriculture Organization of the United Nations. Documentation Center,1971 **Minnesota Reports** Minnesota. Supreme Court,1925 Columbia Basin Irrigation Project Goethals, George W., and Company,1922 *Annual report of the State Board of Health of Alabama. 1928/29 ,1929* Proceedings American Society for Engineering Education. Conference,1989 Minnesota reports ,1925 *FAO Documentation: Current Bibliography* Food and Agriculture Organization of the United Nations. Documentation Center,1972 *Activities Report* Alabama. Dept. of Public Health,1927 U.S. Government Research & Development Reports ,1970 **Department Reports of the State of New York** New York (State),1922 **The State Department Reports of the State of New York** New York (State),1922 Decisions of the Public Service Commissions Board of Claims and Education Department opinions of the Attorney General rulings of the Secretary of State Comptroller State Engineer Commissioner of Agriculture Superintendent of Banks Superintendent of Insurance Civil Service Commission Conservation Commission Commissioner of Excise and State Tax Commissioners etc etc and messages of the Governor **Annual Report of the Dominion Water Power and Reclamation Service** Canada. Dominion Water Power and Reclamation Service,1914 **The Development of the Upper Sacramento River** Paul Bailey,1928

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