

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>

Automatic Water Level Controller Project Report

**United States. Federal Energy
Regulatory Commission**



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Action plan for operations support of the Pehur High-Level Canal (PHLC) Project: 1 January 1995 to 31 December 2001 submitted to Irrigation Department North West Frontier Province , **Federal Energy Regulatory Commission Reports** United States. Federal Energy Regulatory Commission,1998 Artificial Intelligence and Online Engineering Michael E. Auer,Samir A. El-Seoud,Omar H. Karam,2022-10-14 Nowadays online technologies are the core of most fields of engineering and the whole society and are inseparable connected for example with Internet of Things Industrial Internet of Things Industry 4 0 Online Biomedical Engineering Data Science Machine Learning and Artificial Intelligence Cross Mixed Reality and Remote Working Environments to name only a few Since the first REV conference in 2004 we tried to focus on the upcoming use of the Internet for engineering tasks and the opportunities as well as challenges around it Consequently the motto of this year s REV2022 was Artificial Intelligence and Online Engineering In a globally connected world the interest in online collaboration teleworking remote services and other digital working environments is rapidly increasing In response to that the general objective of this conference is to contribute and discuss fundamentals applications and experiences in the field of Online and Remote Engineering Virtual Instrumentation and other related new technologies like Cross Reality Data Science Big Data Internet of Things Industrial Internet of Things Industry 4 0 Cyber Security and M2M Smart Objects Another objective of the conference is to discuss guidelines and new concepts for engineering education in higher and vocational education institutions including emerging technologies in learning MOOCs MOOLs and Open Resources REV2022 was the 19th in a series of annual events concerning the area of Online Engineering It has been organized in cooperation with The British University in Egypt BUE Cairo as a hybrid event from February 28 until March 02 2022 **Scientific and Technical Aerospace Reports** ,1983 **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

Water Delivery Service as a Determinant of Irrigation Project Performance Stuart Wayne Styles,2001 ASME Technical Papers ,1983 Irrigation and Drainage Paper ,1973 Hydraulic Engineering ,1929 **Engineering Journal** ,1925 Vol 7 no 7 July 1924 contains papers prepared by Canadian engineers for the first World power conference July 1924

Power ,1914 Paper ,1983 Water Power ,1966 Transactions of the American Nuclear Society American Nuclear Society,2002 **Development and Field Test of the Central Energy Plant Adaptive Control System (CEPACS)** ,1994 Abstracts ,1955 *U.S. Government Research & Development Reports* ,1970 **The Electrical Review** ,1957 School Shop ,1970 Telegraphic Journal and Electrical Review ,1957

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