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WATER LEVEL AND WATER
LEAKAGE DETECTOR

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ABSTRACT

Water is an essential element for every living creature. Since the first man walk the earth, water system has developed throughout the age of civilizations. In the modern days almost every house and every accommodation are built with piping systems, which will supply clean and processed water. But processed water does cost a lot of money and it is important to prevent leakage, and it must be made certain that the processed water is kept enough due to its significant. So this project is meant to resolve the problems.

Seeing as the piping systems is widely applied almost in every standing building today, it is vital to detect the water level and leakage problems. The Water level and leakage detector can be used in any type of piping systems to give us warning. Attached with LEDs and buzzers, it will sound the alarm if there is any problem to the piping system. The detector can be used at schools, houses, and other places which use piping system.

Another advantage of the leakage and water level detector that this detector is low cost. Not like the other alarm system which is implemented today, this project is initiated to create a simple, low cost and environment safe electronic system.

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TABLE OF CONTENTS

Abstract	1
Acknowledgement	2
Chapter 1 : INTRODUCTION	
1.1 Background	3
1.2 Scope of Work	4
1.3 Objective of the project	8
Chapter 2 : Double function-Combined Sensor	
2.1 Water leakage and water level detector	9
Chapter 3 : Circuit Design and Operations	
3.1 Circuit Design	11
3.1.1 Schematic Diagram	12
3.1.2 Components list and data	13
3.2 Circuit Simulation	13
3.2.1 TINA software	15
3.2.2 Simulation procedures	16
3.2 PCB design	
Chapter 4 : Hardware Construction	
4.1 Hardware construction	17
Chapter 5 : Results	
5.1 Simulation Results	23
5.2 Circuit testing Results	27
Chapter 6 : Discussions and Recommendations	28
Chapter 7 : Conclusions	29
References	30
Appendix : Components Data	31

CHAPTER 1

INTRODUCTION

1.1 Background.

Under this subtitle, the technical significance of the project will be mentioned. First and foremost, the concept that is tried be brought to front is an evolution to the conventional piping system. The idea of Water level and water leakage detector comes to realization when it came to our mind that it will help with today's life. Ordinary piping system does not give any signals to user if there is any leakage or water shortage occurs. The disadvantage of the old style piping system can give bad effects to users such as high billing.

Water level and water leakage detector can guarantee the maximum satisfaction to users. Besides that, the safety of the good condition pipes is one of the most important part to avoid other appliances such as interior wires which are potentially hazardous short circuited if the leakage from pipes occur. Early signal from Water level and water leakage detector can save the day before any disaster such as fire can become worst and yet fatal.

The background study of water level and water leakage detector comes from the ordinary piping system that consist the combination of the electronic devices which usually used in our daily life. The innovation that has been applied to the ordinary interior piping system will benefit users.

Actually, some of the components such as IC555 are very familiar to us. We have learned about it in digital system (KEE222).Some of the function of the circuits also have been learned in the control system (KEL 234).

Component such as capacitor has been learned in (KEE 112). The technique to combine multiple circuits also has been learned in (KEU110 and KEU210). From these subjects we gained the knowledge on how to connect parallel or series connection to our circuit project .This is important to get the suitable voltage applied to each component in the circuit.