

PROJECT TITLE

DEW GUARD

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ACKNOWLEDGEMENT

With the name of Allah S.W.T the most gracious and merciful. Thankful to Allah S.W.T for giving opportunity to complete this project with successful. Thank you to all personnel's which were willing to spend their value time in helping us to complete this project.

We also would like to express our deep sense of gratitude and appreciation to our project supervisor Miss Wan Salha Saidon for her consistent help, guidance, inspiration and giving us spirit as well as precision of the valuable time, encourage and patience during the period of completing this project. We really appreciated it and will never forget it.

Finally we would like to express deepest gratitude to our parents and friends who always give the courage and support to us. They have all been the constant source of strength and inspiration to us.

We hope the knowledge and experienced that we gained from this project will help us to face the real challenge in working environment.

ABSTRACT

Dew guard is a sensor that is used to detect dew or rain. The main function of this sensor is to give awareness to people so they can protect their properties. They are many place and properties that use the basic concept of dew guard, such as stadium and garage, but it has to combine with other process.

The power supply in AC will supply 230V to the transformer, transformer will step down the voltage. Then the bridge rectifier will convert from AC to DC. Both voltage regulator IC1 7805 and IC7905 will regulate the voltage. When the probe which is act like a sensor detects rain, the IC3, IC4, IC5 will act as a comparator and will produce sound at speaker.

CHAPTER 1

INTRODUCTION

1.1 Background

Dew means the very small drops of water that form on the ground during night. Guard means the things or person that protects something.

A sensor is an electrical or mechanical device that maps the value of some environmental attribute to a quantitative measurement. Every sensor must detect some aspect of the state of its environment. This detection involves direct interaction with the environment. Dew Guard is one of the liquid detectors. Dew Guard is the replacement of same sensors such as moisture sensors, surface dryness testers, liquid level detectors, skin dryness testers, touch sensors. Dew Guard is replacement for those sensors which had ceased operation after long period of using it and unreliable service due to corrosion of the electrode problem and subsequent failure.