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SYNOPSIS FOR RAIN ALARM

In a world full of automation, everyone wants to stay smart and productive. And, water harvesting can also be achieved easily with the help of automation. Here in this article, we will be discussing the Rain Alarm project which has a great significance in harvesting rainwater. The circuit helps to detect the rain by giving an alarm while you are sitting inside the home, so that you can take necessary action. It totally helps in avoiding the unnecessary headache of keeping an eye outside your window in the rainy season to see when it is going to rain. To save your time money and effort let's start with the process of making a simple and cost effective rain alarm circuit in the easiest way.

Why We Need Rain Alarm?

This circuit enables you to manage your outside settings when it rains. You can close your windows or get ready for rain water harvesting after hearing the alarm. With some small modification the circuit can also be used as water level indicator, agriculture field irrigation system etc. The biggest advantage of this circuit is that it's simple, reliable and consumes less power.

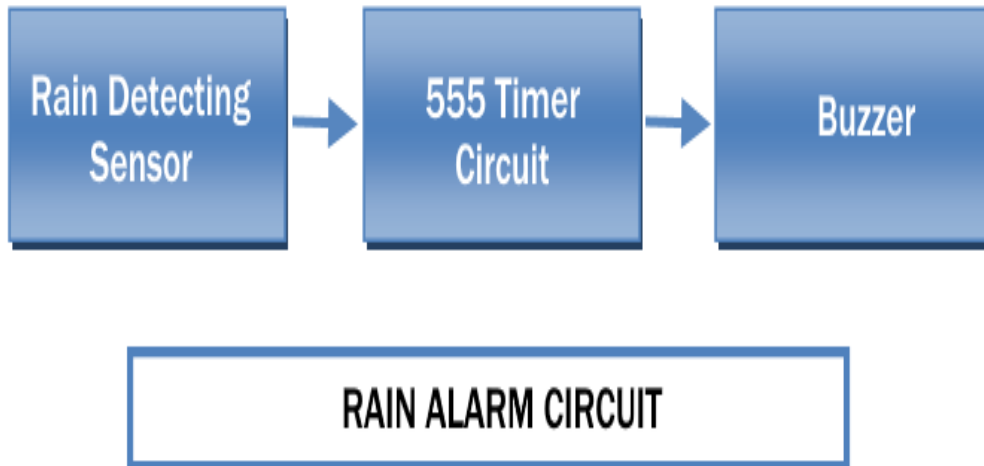
Rain Alarm Circuit consists of three main components that include **Rain sensor**, 555 Timer IC and a buzzer. The heart of rain alarm circuit is rain sensor which is used to detect the presence of water.

When rain drops falls on the sensor, it creates a conducting path and triggers the 555 Timer IC. Once the timer IC is triggered, it will activate the alarm. The biggest advantage of using rain sensor in the circuit is that it is relatively cheap and highly reliable. You don't need to rush for purchasing the one in fact, you can make rain sensor at home in simple way suggested in this article. So, before starting with the project, let me brief you about the design, circuit diagram, working and application of rain sensor.

The circuit mainly works on the principle that normal water conducts some amount of electricity, although rain water or natural water is not pure. Being able to detect rain due to use of rain sensor, this circuit can be used in various other fields where you want to detect water.

Also, we will be guiding you step by step to design a rain alarm sensor with the help of simple and cost effective components.

BLOCK DIAGRAM:



COMPONENT LIST

Before starting with Rain alarm circuit design process, go through the below mentioned part list and arrange the required components as per the given specifications.

- IC 555 timer with base
- Buzzer
- 470 ohm resistor
- Preset 50k
- 5mm led
- Handmade Branding less printed circuit board- 1
- DC Battery 9v (not include in this kit)
- Battery cap
- Rain sensor

APPLICATIONS OF RAIN ALARM CIRCUIT

- In irrigation, it can sense rain and inform the farmers on time
- In household, the circuit can work to start other automated rain water harvesting machines to harvest rain
- In automobile, it can start the wiper and inform the driver in case of rain.
- It can be used to detect chemical rain also.
- It can be used to boost strength of antenna and increase the signal strength to send and receive signals.
- Helps you save electricity

CONCLUSION

Rain Alarm circuit is very useful and easy to design. In this article, we have discussed the cost effective rain alarm circuit with its circuit diagram, block diagram, working and its various applications. We hope that you will be able to design this highly reliable Rain Alarm circuit with ease. We have also explained the working of main components in the circuit i.e. – 555 Timer IC and Rain sensor in brief, that will help you understand the Working of circuit more clearly.

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