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Price: ₹956.00 Orig
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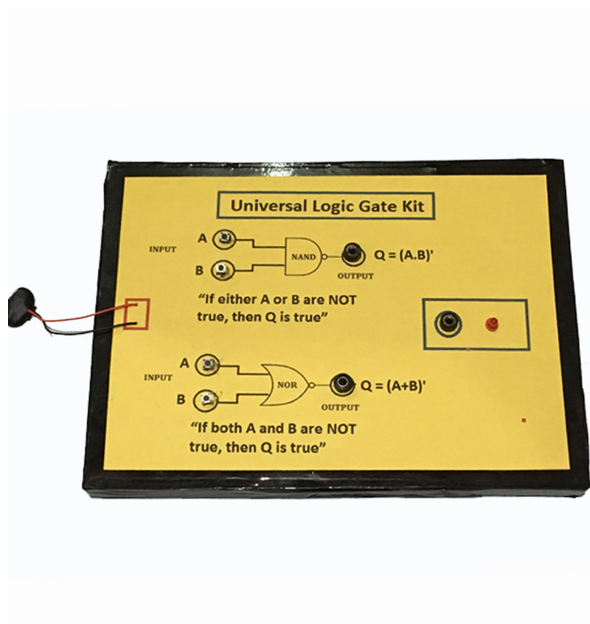
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Advance Universal Logic Gate Kit

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Categories: [Arduino](#), [Engineering project](#), [Projects](#)

Product Description



**Alcohol Sensor
Driving Detection
Accident Prevention
using Arduino**

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Categories: [Arduino](#), [Engineering project](#), [Projects](#)

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Product Description



All Logic Gate Experiment

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Tags: [class 12th science project and experiment](#), [logic gate](#), [new science project](#)

Product Description

About Project:

"Unleash the power of logic with our All Logic Gate Experiment Kit – the ultimate companion for school science exhibitions and physics experiments! Designed to ignite curiosity and foster a deep understanding of logic circuits, this comprehensive kit equips students with hands-on experience in building and experimenting with various logic gates. From AND and OR gates to NOR and NAND gates, this kit covers it all, making it an ideal choice for budding scientists and future engineers. Boost your school's science exhibition with a captivating showcase of intricate logic circuits and inspire a new generation of problem solvers. Get ready to witness the excitement of discovery and innovation with the All Logic Gate Experiment Kit – where learning meets experimentation!"

What are Logic Gates ?

A gate is defined as a digital circuit which follows some logical relationship between the input and output voltages. It is a digital circuit which either allows a signal to pass through as stop, it is called a gate. The **Logic Gates are building blocks at digital electronics**. They are used in digital electronics to change on voltage level (input voltage) into another (output voltage) according to some logical statement relating them. A logic gate may have one or more inputs, but it has only one output. The relationship between the possible values of input and output voltage is expressed in the form of a table called truth table or table of combinations. **Truth**

table of a **Logic Gates** is a table that shows all the input and output possibilities for the logic gate. These are important digital devices that are mainly based on the Boolean function. Logic gates are used to carry out logical operations on single or multiple binary inputs and give one binary output. In simple terms, logic gates are the electronic circuits in a digital system.

Application of Logic Gates

Logic gates have a lot of applications, but they are mainly based upon their mode of operations or their truth table. Basic logic gates are often found in circuits such as safety thermostats, push-button locks, automatic watering systems, light-activated burglar alarms and many other electronic devices. One of the primary benefits is that basic logic gates can be used in various combinations if the operations are advanced. Besides, there is no limit to the number of gates that can be used in a single device. However, it can be restricted due to the given physical space in the device. In digital integrated circuits (ICs), we will find an array of the logic gate area unit.

Working Video:

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All Logic Gate

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SKU: PH_SPE_02

Price: ₹480.00 Original
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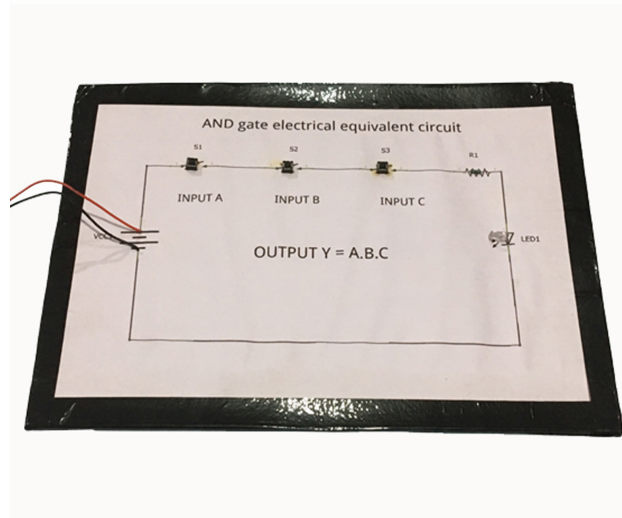
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AND logic gate equivalent circuit

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Tags: [class 12th science project and experiment](#), [logic gate](#), [new science project](#)

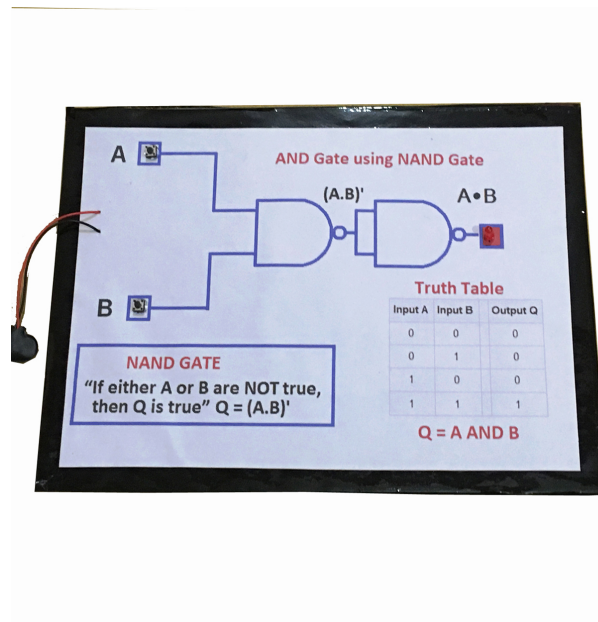
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Categories: [Electronics](#), [Logic Gate](#), [Physics](#), [Projects](#), [School Project & Experiment](#)

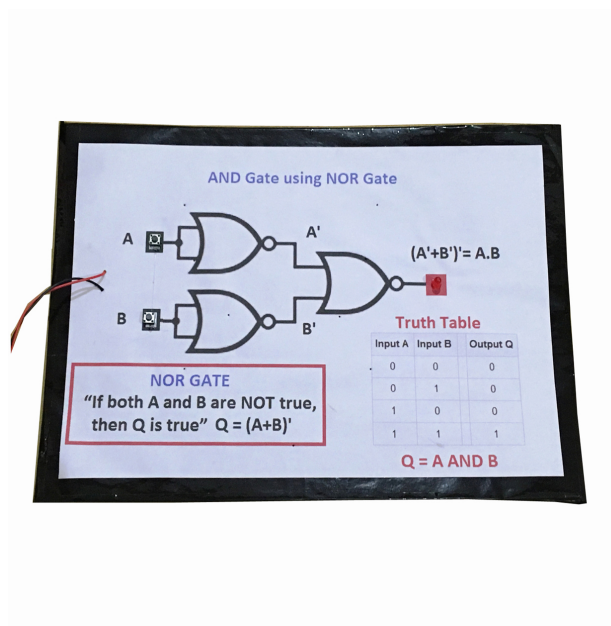
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AND logic gate using NOR Gate

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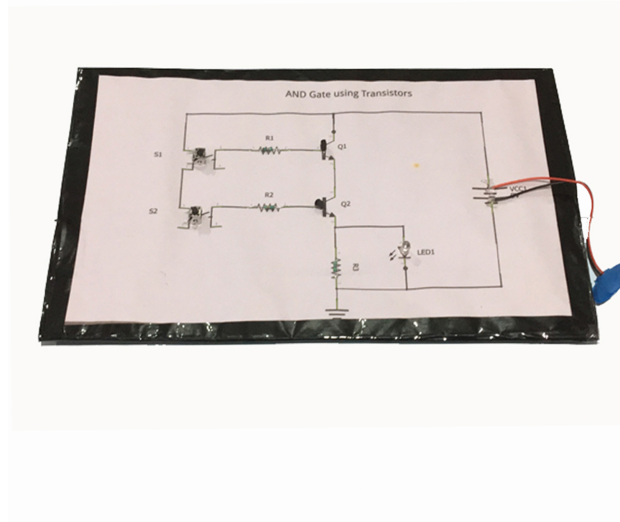
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AND logic g

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Anti sleep A using IC 358

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Stock: instock

Categories: [Engineering project](#), [IC & Transistor](#), [Projects](#)

Product Description

INTRODUCTION:

The Anti-Sleep Alarm with Vibrator using IC 358 is a safety-oriented project designed to address the critical issue of drowsy driving or fatigue-induced lapses in attention. The project utilizes the IC 358 operational amplifier to create a reliable system that can alert individuals when signs of drowsiness are detected, enhancing road safety.

AIM:

The primary aim of this project is to develop an Anti-Sleep Alarm system that incorporates a vibrator for timely alerting of individuals, especially drivers, when signs of drowsiness are detected. The system aims to prevent accidents caused by drowsy driving, providing an effective and non-intrusive solution to enhance alertness.

PRINCIPLE:

The Anti-Sleep Alarm system operates on the principle of monitoring and detecting physiological signals indicative of drowsiness, such as eye movement or head nodding. The IC 358 operational amplifier is employed to process and amplify these signals, triggering the vibrator as an alert mechanism when predefined thresholds are reached.

ADVANTAGES:

- **Timely Alerts:** The inclusion of a vibrator ensures that the alert is immediate and cannot be easily ignored, enhancing the chances of preventing accidents.
- **Non-Intrusive:** Unlike audible alarms, the tactile feedback through the vibrator is less intrusive, minimizing distraction for others.
- **Adjustable Sensitivity:** The system allows for customization based on individual preferences and physiological variations.

APPLICATIONS:

- **Automotive Safety:** Integration into vehicles to prevent accidents caused by drowsy driving.
- **Industrial Settings:** Use in work environments where alertness is crucial for safety.
- **Medical Monitoring:** Implementation in healthcare to monitor patient alertness.

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Anti-sleep a Safety syste Nano

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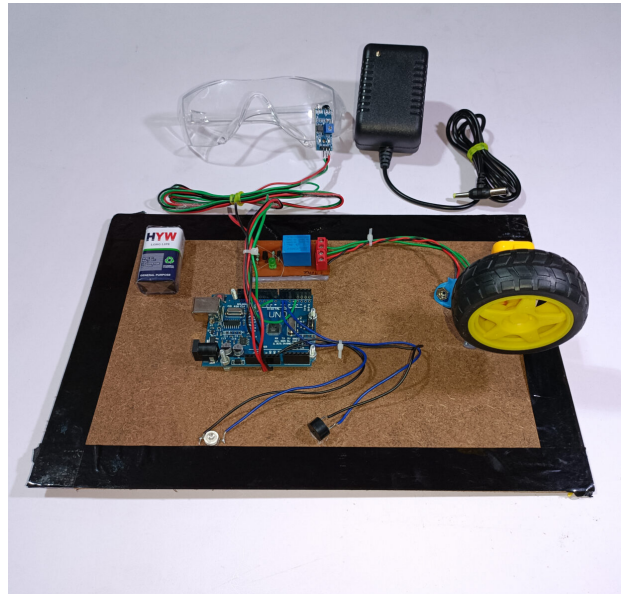
SKU: PH_EP_049

Price: ~~₹3,180.00~~ Original price was: ₹3,180.00. ₹1,876.00 Current price is: ₹1,876.00.

Stock: instock

Categories: [Arduino](#), [Engineering project](#), [Projects](#)

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Stock: instock

Categories: [Arduino](#), [Engineering project](#), [Exhibition Models & Inspire Award](#), [Mechatronics](#), [Projects](#), [Technology & Innovation](#), [Transport](#)

Product Description

ABSTRACT:

Creating an anti-sleep alarm with driver safety using an Arduino Uno involves building a system that can detect signs of drowsiness or inattentiveness in a driver and alert them to stay awake and focused. One common approach is to monitor the driver's eye movements and sound an alarm if signs of fatigue are detected. Here's a simplified overview of how you can create such a system

INTRODUCTION:

In an era where long commutes and extended road trips have become a common part of our lives, the issue of driver fatigue and drowsiness is a significant concern. Drowsy driving can lead to accidents with serious consequences. To address this critical safety concern, we have developed an Anti-Sleep Alarm system using an Arduino Uno SMD, an eye blink sensor, a 5V relay module, a BO motor, wheels, a buzzer, a 1-watt red LED, a 9V SMPS, and a 9V battery.

AIM:

The primary objective of this project is to create a robust and cost-effective system that detects signs of drowsiness or inattention in a driver and promptly alerts them to stay awake and focused. The Anti-Sleep Alarm system is designed to enhance driver safety during long journeys and late-night drives.

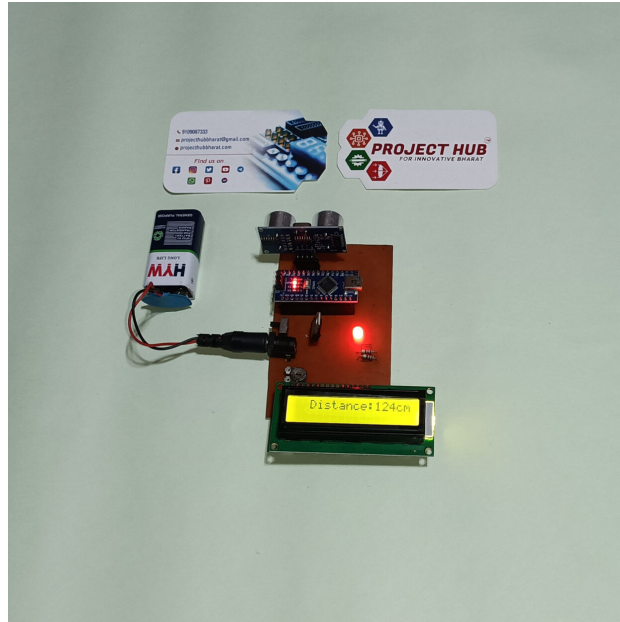
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Arduino & Ultrasonic Sensor Distance Measurement

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SKU: PH_EP_003

Price: ~~₹2,804.00~~ Original price was: ₹2,804.00.₹
1,654.00Current price is: ₹1,654.00.

Stock: instock

Categories: [Arduino](#), [Engineering project](#), [Projects](#)

Tags: [Arduino Development](#), [Arduino Nano](#), [Arduino Projects](#), [Distance Measurement](#), [Distance Meter](#), [DIY electronics](#), [DIY Kits](#), [Electronic Gadgets](#), [Electronics Accessories](#), [Engineering Projects](#), [Measurement Tools](#), [Prototyping Tools](#), [Robotics Components](#), [Sensor-based Projects](#), [Ultrasonic Sensor](#)

Product Description

INTRODUCTION:

The techniques of distance measurement using ultrasonic in air include continuous wave and pulse echo technique. In the pulse echo method, a burst of pulses is sent through the transmission medium and is reflected by an object kept at specified distance. The time taken for the pulse to propagate from transmitter to receiver is proportional to the distance of object. For contact less measurement of distance, the device has to rely on the target to reflect the pulse back to itself. The target needs to have a proper orientation that is it needs to be perpendicular to the direction of propagation of the pulses. The amplitude of the received signal gets significantly attenuated and is a function of nature of the medium and the distance between the transmitter and target. The pulse echo or time-of-flight method of range

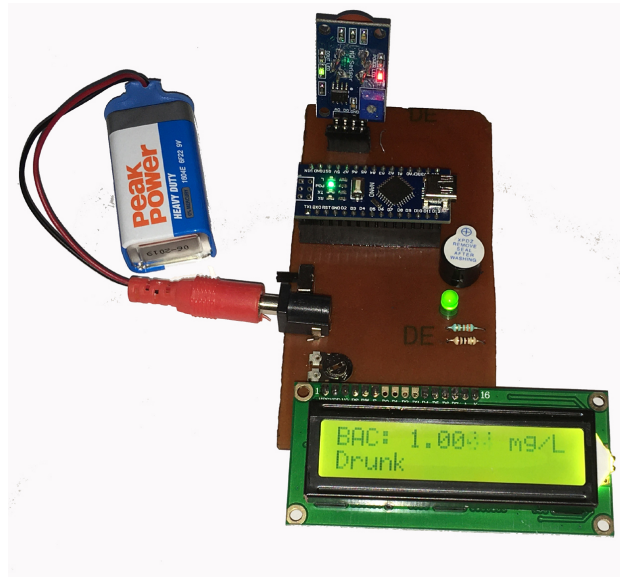
measurement is subject to high levels of signal attenuation when used in an air medium, thus limiting its distance range. Ultrasonic sensors are great tools to measure distance without actual contact and used at several places like water level measurement, distance measurement etc. This is an efficient way to measure small distances precisely. In this project we have used an **Ultrasonic Sensor** to determine the distance of an obstacle from the sensor. Basic principal of ultrasonic distance measurement is based on ECHO. When sound waves are transmitted in environment then waves are return back to origin as ECHO after striking on the obstacle. So we only need to calculate the travelling time of both sounds means outgoing time and returning time to origin after striking on the obstacle. As speed of the sound is known to us, after some calculation we can calculate the distance.

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[**Working Video:**](#)

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ARDUINO B DETECTOR A

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Price: ₹3,056.00 Original price was: ₹3,056.00.₹
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Stock: instock

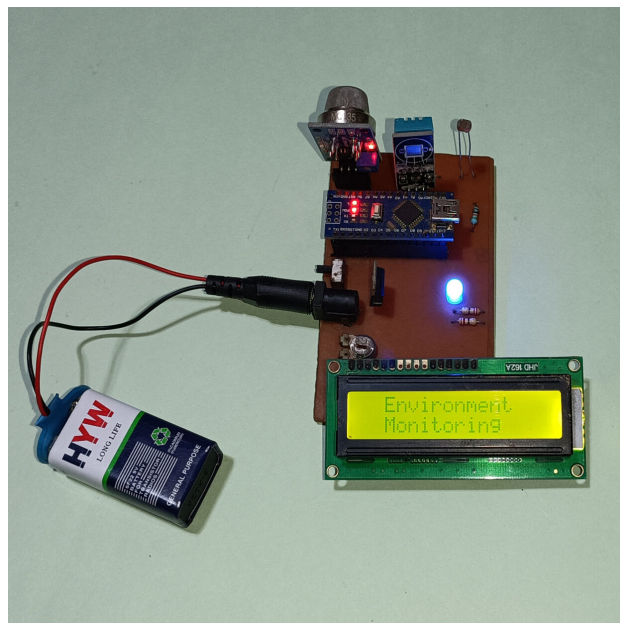
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Product Description



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Stock: instock

Categories: [Arduino](#), [Engineering project](#), [Projects](#)

Product Description

INTRODUCTION :

The Arduino UNO based Weather Station is a project aimed at monitoring and displaying weather-related data using various sensors. The system utilizes an Arduino UNO microcontroller board along with a 16x2 LCD display, a DHT11 temperature and humidity sensor, an LDR (Light Dependent Resistor), and an MQ135 gas sensor. The weather station provides real-time data on temperature, humidity, light intensity, and air quality, making it useful for both personal and professional applications.

ADVANTAGES:

The Arduino UNO based Weather Station offers several advantages:

- Real-time weather monitoring: The system provides instant temperature, humidity, light intensity, and air quality readings, allowing users to stay informed about the current weather conditions.
- Compact and portable: The Arduino UNO board and sensors can be easily assembled into a small form factor, making the weather station portable and convenient for use in different locations.
- User-friendly display: The 16x2 LCD provides a clear and readable interface for displaying weather data, making it accessible to users of all levels of technical expertise.
- Customizability: The system can be extended to include additional sensors or functionalities according to specific requirements, such as rainfall measurement, wind speed, etc.

APPLICATIONS:

The Arduino UNO based Weather Station has various applications, including:

- Home weather monitoring: Users can set up the weather station at their homes to track local weather conditions, enabling them to plan outdoor activities accordingly.
- Agricultural monitoring: The system can be used in farming applications to monitor environmental conditions such as temperature and humidity, aiding in crop management and irrigation decisions.
- Environmental research: Researchers can utilize the weather station to collect data on temperature, humidity, light intensity, and air quality for studying local microclimates and environmental trends.
- Educational purposes: The project serves as a practical learning tool for students interested in electronics, programming, and weather science.

CONCLUSION:

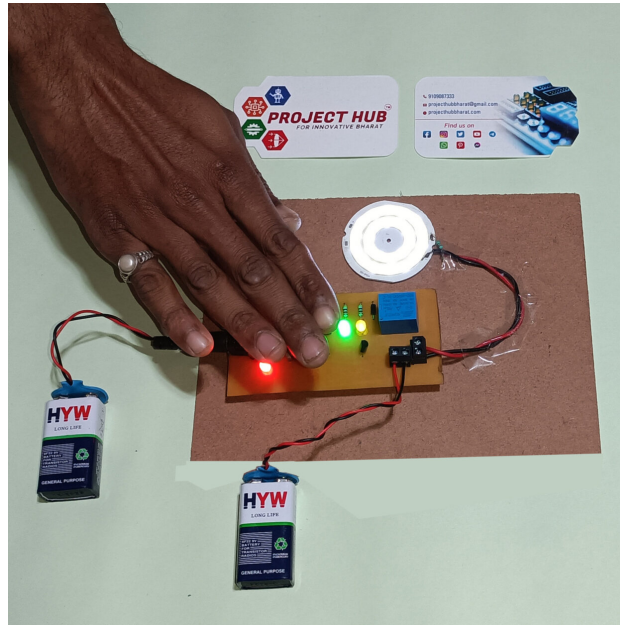
The Arduino UNO based Weather Station provides a cost-effective and efficient solution for real-time weather monitoring. By utilizing sensors such as the DHT11, LDR, and MQ135, the system can collect and display valuable data related to temperature, humidity, light intensity, and air quality. The project offers advantages such as portability, customizability, and user-friendly display, making it suitable for various applications ranging from personal use to scientific research. The Weather Station project serves as an excellent platform for exploring the intersection of electronics, programming, and weather science.

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Categories: [Engineering project](#), [IC & Transistor](#), [Projects](#)

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Categories: [Engineering project](#), [IC & Transistor](#), [Projects](#)

Tags: [AC Load Automation](#), [Automated Lighting for Peaceful Nights](#), [Automatic Night Light Control](#), [Convenient Night Light Management](#), [Easy-to-Install](#)

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Product Description

Abstract:

Automatic Night Light Control System is a simple yet powerful concept, which uses IC 555 timer. By using this system manual works are 100% removed. It automatically switches ON lights when the sunlight goes below the visible region of our eyes. This is done by a sensor called Light Dependent Resistor (LDR) which senses the light actually like our eyes. It automatically switches OFF lights whenever the sunlight comes, visible to our eyes. By using this system energy consumption is also reduced because nowadays the manually operated Night lights are not switched off even the sunlight comes and also switched on earlier before sunset. In this project, no need of manual operation like ON time and OFF time setting.

Introduction

Night light controllers are smarter versions of the mechanical or electronic timers previously used for Night light ON-OFF operation. They come with energy conservation options like twilight saving, staggering or dimming. Also many Night light controllers come with an astronomical clock for a particular location or a Global Positioning System (GPS) connection to give the best ON-OFF time and energy saving. Automatic Night Light Control System is a simple and powerful concept, which uses IC 555 timer to switch ON and OFF the Night light automatically. By using this system manual works are removed. It automatically switches ON lights when the sunlight goes below the visible region of our eyes. It automatically switches OFF lights under illumination by sunlight. This is done by a sensor called Light Dependent Resistor (LDR) which senses the light actually like our eyes. By using this system energy consumption is also reduced because now-a-days the manually operated Night lights are not switched off properly even the sunlight comes and also not switched on earlier before sunset. In sunny and rainy days, ON time and OFF time differ significantly which is one of the major disadvantage of using timer circuits or manual. This project exploits the working of an IC 555 timer to switch ON and switch OFF the lights at appropriate time with the help of an electromagnetically operated switch. A Night light, lamppost, Night lamp, light standard, or lamp standard is a raised source of light on the edge of

a road or walkway, which is turned on or lit at a certain time every night. Modern lamps may also have light-sensitive photocells to turn them on at dusk, off at dawn, or activate automatically in dark weather. In older lighting this function would have been performed with the aid of a solar dial. It is not uncommon for Night lights to be on poles which have wires strung between them, or mounted on utility poles. Automatic Night light needs no manual operation of switching ON and OFF. The system itself detects whether there is need for light or not. When darkness rises to a certain value

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Automatic Night Light Transistor

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Price: ~~₹4,000.00~~ Original price was: ₹4,000.00. ₹
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