



## Automatic M AC Load -DI

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## Highlights

## Branding Free Pro

- No Brand Name/Projects
- 100% Working p
- Tested Project &

## Documentation

- Free Project Syn
- Printed Short Re
- Printable Soft co

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**SKU:** PH\_EPk\_009

**Price:** ₹1,200.00 Original price was: ₹1,200.00. ₹699.00 Current price is: ₹699.00.

**Stock:** instock

**Categories:** [Engineering project kit \(EPK\)](#), [Hobby DIY kits](#), [IC & TRANSISTOR](#)

**Tags:** [AC Load Automation](#), [Automated Lighting for Peaceful Nights](#), [Automatic Night Light Control](#), [Convenient Night Light Management](#), [Easy-to-Install Night Light Sensor](#), [Eco-Friendly Night Light Solution](#), [Energy-Efficient Lighting Solution](#), [Energy-Saving Night Light Automation](#), [Enhance Sleep with Automatic Night Lighting](#), [Hassle-Free Night Illumination](#), [Home Automation for Night Lights](#), [Save Energy with Night Light Control](#), [Seamless Night Light Integration](#), [Smart Home Night Light Control](#), [Smart Night Light Sensor](#)

## Product Description

### Kit Includes :

- Electronic Parts (listed in product image)
- Circuit Diagram
- Printed Circuit Board (PCB)
- Printed Short Report

## Prerequisite Requirements

### Hardware :

1. [Soldering Iron \(Buy Now \)](#)
2. [Soldering Paste \(Buy Now \)](#)
3. [Soldering Wire \(Buy Now \)](#)
4. [Soldering Stand \(Buy Now\)](#)
5. [Wire Cutter \(Buy Now\)](#)
6. [Screw Driver \(Buy Now\)](#)

## Skills:

1. Soldering ([Click Here for Free Tutorial](#))
  2. Circuit Testing
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## 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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**[Download Free Project Synopsis](#)**

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**[Working Video](#)**

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**Disclaimer:**

This is a handmade complete working Models, Projects & Activity kits supported by rough study material to make a suitable projects report by the student. It is using Cardboard/Wooden base, Paper, Foam based board, stationary items, Electronic-Electrical Components, Mechanical & Scientific goods as per the requirement of a particular model. Colour of product and decoration item may be varying according to availability of material but we make ensure that we will deliver the product with same working, structure and dimensions as describe in product description section.

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