



## Portable En

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### Highlights

#### Branding Free Pr

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

#### Documentation

- Free Project Syn
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**SKU:** PH\_EP\_028

**Price:** ₹3,908.00 Original price was: ₹3,908.00. ₹  
2,306.00 Current price is: ₹2,306.00.

**Stock:** instock

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

**Tags:** [school science project](#), [science exhibition model](#), [security system](#)

## Product Description

### INTRODUCTION :

The Portable Environment Monitor is a project aimed at creating a device that can measure and display key environmental parameters such as air quality, temperature, humidity, and light intensity. The monitor utilizes an Arduino Nano microcontroller board along with sensors like MQ135, DHT11, and an LDR (Light Dependent Resistor) to collect data. The data is then displayed on an LCD16x2 display for easy interpretation. This project provides a compact and portable solution for monitoring environmental conditions in various settings.

### MARKET USES:

The Portable Environment Monitor has various potential market uses, including:

- **Indoor Air Quality Monitoring:** It can be utilized in homes, offices, and public buildings to monitor air quality, detect harmful gases, and ensure a healthy living and working environment.
- **Environmental Research:** Scientists and researchers can use the monitor for field studies, analyzing pollution levels, and collecting data for further analysis.
- **Smart Agriculture:** The monitor can be employed in greenhouse environments to maintain optimal temperature, humidity, and light levels for plant growth.
- **Industrial Safety:** It can be utilized in industrial settings to monitor air quality and ensure a safe working environment for employees.
- **Educational Purposes:** The Portable Environment Monitor can be used as an educational tool to teach students about environmental monitoring and the importance of air quality.

### ADVANTAGES:

The Portable Environment Monitor offers several advantages:

- **Portability:** The device is compact and portable, allowing for easy deployment in various locations.
  - **Real-time Monitoring:** It provides real-time data on temperature, humidity, gas concentration, and light intensity, allowing users to make informed decisions.
  - **Cost-effective:** The components used in the project are relatively inexpensive and readily available, making it an affordable solution for environmental monitoring.
  - **User-friendly Interface:** The LCD16x2 display provides a clear and easy-to-read interface for displaying environmental parameters.
  - **Customizability:** The project can be expanded or modified to include additional sensors or functionality based on specific requirements.
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### [Download Free Project Synopsis](#)

### [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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