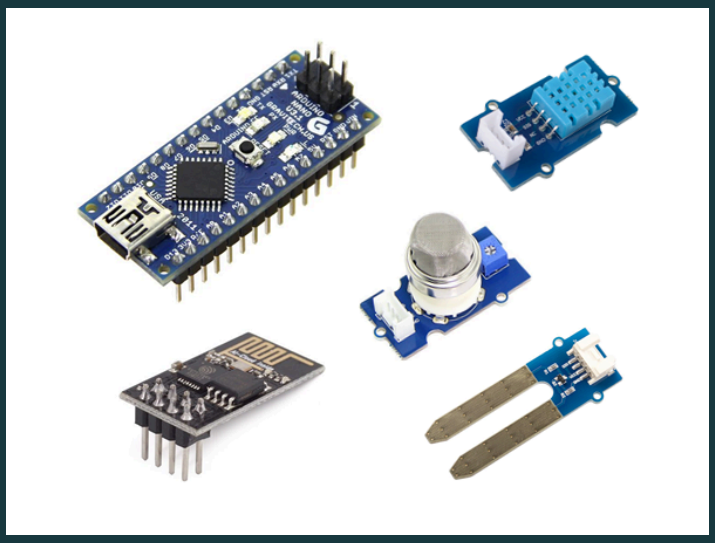
seeed studio

INDUSTRIAL PRODUCT DATASHEET

GreenHouse Monitoring System using Arduino

GreenHouse Monitoring System using Arduino enables real-time monitoring of air quality, soil moisture, temperature, and humidity with cloud and remote data collection via WiFi.

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Overview



This kit implements a greenhouse monitoring system using an Arduino Nano and ESP8266, along with a Seeedstudio Grove module, to collect, measure, and visualize air quality, soil moisture, temperature, and humidity. It supports cloud and remote data collection via WiFi for applications in greenhouse real-time monitoring and smart plant factories.

Key Features

Description

The kit can provide the components needed to implement a greenhouse monitoring system. Including an Arduino Nano development board and an ESP8266 greenhouse monitoring system, as well as a Seeedstudio Grove module and a Li-Ion Battery. The greenhouse monitoring system can realize real-time monitoring of the air quality, soil moisture, environmental temperature and humidity in the greenhouse

Elmin Delibašić provided us with a tutorial on how to create a greenhouse monitoring system. The greenhouse monitoring system can realize real-time monitoring of the air quality, soil moisture, environmental temperature and humidity in the greenhouse. Multiple sensors read multiple data and send them to the application. It can realize the relevant situation of the greenhouse at any time on the mobile terminal, so that corresponding measures can be taken.

Before officially starting this project, you should prepare the listed Arduino Nano development board and ESP8266 greenhouse monitoring system, Seeedstudio Grove module, and a Li-Ion Battery, jumper and other components. In addition, the Li-Ion Battery is not included in the component purchase link we provide, and you can use your power bank. After preparing these things, we can start building our greenhouse monitoring system!

The setup of the system is easy to get started. You can connect all components according to the provided Schematics. After the hardware connection is completed, connect the power supply through the USB cable to power the Arduino Nano. Before that, you should download the latest Arduino IDE and install related library files. You can download and burn the code through the web page. For specific operations and codes, please refer to **GreenHouse Monitoring System**.

- Collect, measure and visualize air quality, soil moisture, temperature and humidity on the screen
- Support cloud and remote collection of greenhouse real-time data via WiFi

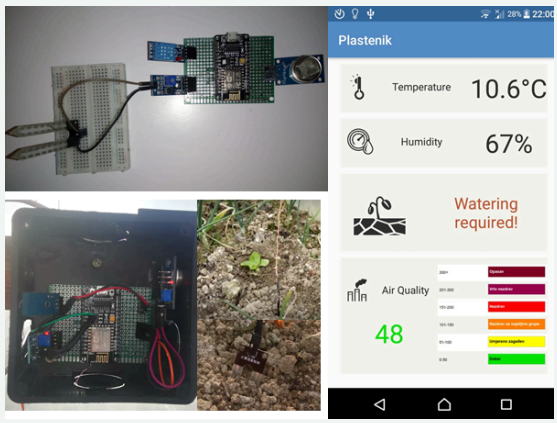
Application

- Greenhouse real-time monitoring
- Smart plant factory

Documentations

- **GreenHouse Monitoring System**- Credits to **Elmin Delibašić**

Product Gallery



Applications

- **Greenhouse real-time monitoring**
- **Smart plant factory**

Resource Links

- https://www.seeedstudio.com/GreenHouse-Monitoring-System-using-Arduino-p-5209.html

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