

Plant Monitor (temp. sensor)

I built my very basic project (plant monitor) related with IOT (internet of thing) application. Here's a quick rundown of the components I used:

10kiloohm Resistor:

This component helps in creating a voltage divider circuit with the LDR (Light Dependent Resistor). This is crucial for monitoring changes in ambient light conditions around the plant.

LDR (Light Dependent Resistor):

The LDR is an integral part of the project, as it allows the system to detect variations in light levels. This data is essential for understanding the plant's exposure to sunlight, helping you ensure it's getting just the right amount.

Bolt WiFi Module:

The Bolt WiFi module serves as the brain of the operation, enabling you to connect your Plant Monitor to the internet. This opens up a world of possibilities, such as real-time monitoring and data logging.

By combining these components, I've created a system that not only keeps track of the light conditions but also allows me to access the data remotely. Here's a simplified breakdown of how it works:

Voltage Division:

The 10kiloohm resistor and LDR work together in a voltage divider circuit. The resistance of the LDR changes with varying light levels, affecting the voltage across the circuit.

Analog-to-Digital Conversion:

The Bolt WiFi module reads the analog voltage from the voltage divider and converts it into a digital value. This data is then sent to the cloud for processing.

Cloud Connectivity:

The Bolt WiFi module connects to the cloud, where the data is processed and made accessible through a user-friendly interface. This allows you to monitor the plant's environment from anywhere with an internet connection

table data <https://lnkd.in/d3C9ApF6>

line Graph <https://cloud.boltiot.com/control?name=BOLT9097489>

Bar Graph <https://cloud.boltiot.com/control?name=BOLT9097489>

Scattered animation <https://cloud.boltiot.com/control?name=BOLT9097489>

Gauge Graph <https://cloud.boltiot.com/control?name=BOLT9097489>