

Send Sensor Data to TEK5110 Monitoring Platform

TEK5110 (Building Mobile and Wireless Networks) provides a free monitoring platform for students based on ELK stack (Elasticsearch, Logstash, Kibanna). Hence, students can configure sensors to send data to monitoring platform so that they can perform online data analytics.

Here, we provided instruction for sending sensor measurements in Raspberry Pi to TEK5110 monitoring platform:

1. You should get your monitoring URL, username and password from your instructor.
2. Format sensor data in a Python dictionary as follows:

```
sensorData={'Humidity':humidity_variable,'Temperature':temperature_variable}
```

3. Send the dictionary you have created with POST method of Python requests library as follows:

```
Import requests  
URL='https://Your_Project_URL'  
sensorData={'Humidity':humidity_variable,'Temperature':temperature_variable}  
connection=requests.post(URL,data=sensorData, auth=('Your_Username','Your_Password'))
```

4. Then, you can enter <https://TEK5110.basicinternet.org> in the browser to visualize your data and perform analytics.