

DATA LOGGER FOR MONITORING OF OVEN TEMPERATURE, HUMIDITY AND CURRENT

Object/Purpose:

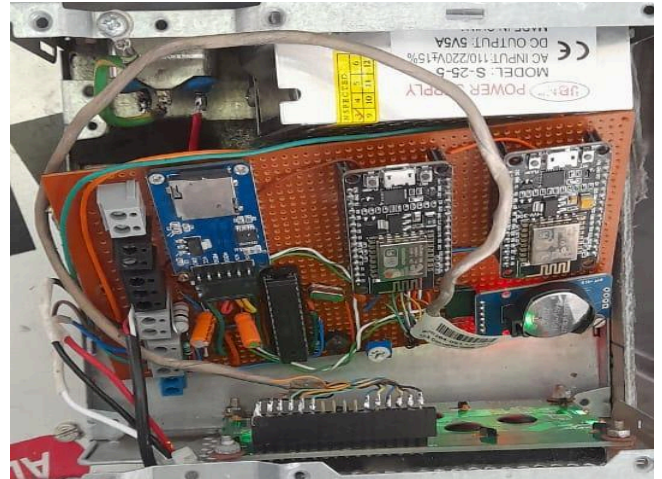
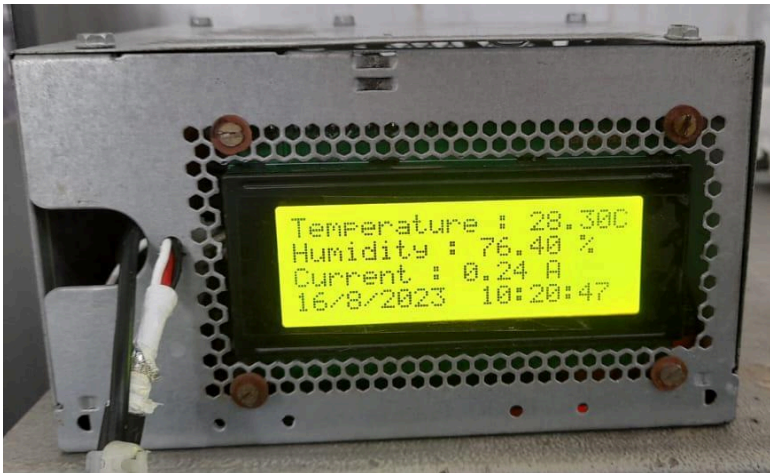
Traction Motor is baked in oven at prescribed temperature for a certain time duration to eliminate moisture and improve the insulation level.

Due to power cut disturbances, it was not possible to monitor that baking of Traction motor has been completed or not and its moisture content was also not measurable.

To overcome this a data logger device has been planned to develop which can monitor 24x7 the inside oven temperature, humidity and the current taken by oven.

Working:

A data logger device has been made by using microcontroller and programming has been done by shed staff. It is used for monitoring temperature, humidity and current of oven. Microcontroller has been interfaced with digital temperature and humidity sensor and current sensor. The microcontroller has been programmed in such a way that it takes sample of Temperature, Humidity and current data in every 15 sec. and store it on a micro-SD Memory card along with date and time. The microcontroller also connects with the Wi-Fi Network and uploads the data online in a server that can be view in real time with the help of a mobile application as well as computer from any where remotely. There is also an inbuilt display to show the data in the device itself.



DATA LOGGER DEVICE INSIDE VIEW



10:56 89%

E3 TM Oven

Oven indicator

Main Switch status

ON

Temperature

36.7°

Humidity

60.9%

Current

0.05^A

3 Months 6 Months 1 Year Custom

