

## ABSTRACT

*Orchids are one of the most popular plants. In the cultivation of orchids, monitoring the state of the plant is the most important thing, a factor that identifies the decline in the export of these orchids, including by pests that attack orchid plants. Keep in mind that in caring for orchids requires temperature, humidity and light intensity that are suitable for the growth of orchid plants properly.*

*Therefore, a tool is made that can solve the problems experienced by orchids such as the lack of attention in caring for orchids, namely providing sufficient water and providing vitamin nutrition to orchid plants. For tools used such as DHT 22 which this tool will work if the temperature and humidity in orchid plants are less than ideal, orchids also need sufficient sunlight, therefore a light intensity sensor is used to help monitor the required light.*

*From the results of the tests carried out, the tool can work automatically to monitor temperature, humidity and light intensity.*

**Keywords:** *orchids, DHT 22 and light intensity sensor*