

AfroEuro Foundation Greenhouse Project in Ghana

This is the short story of Dennis, the student who made this system.

The climate control system project is set for the greenhouses of the Hortiterra project in Aputuogya in Kumasi-Ghana where the goal is, in the future provide a building block for young eager farmers that will help them start-up. The biggest problem now faced is the sudden dying of plants in the greenhouses due to drought and heat making the crop farming business a very punishing trail-error process. The climate control system measures the humidity of the soil of three buckets, when two out of these three are past their manually set critical values, and are therefore deemed too dry, it will trigger the water pump to watering the plants. The critical values are set manually and when first implemented need to be changed until the plants are watered at the right time. After these values have been found the system will automatically water the plants every time the soil is in need of watering.



Water pump:

The cheapest water pump working on electronics is the follow(see us)

This needs to be plugged onto a battery (12 volt, which is a car or motorbike battery) and the system is ready to go