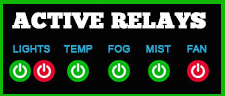
\*\*\*FAN

Most important thing about the fans is if the temp gets to hot the fan should come on and circulate the air.

So…. if the "Middle temp" (high temp on temp screen) surpasses the set temp that we set on screen it will turn on relay "TEMP1 A2” until the temp drops below the current high threshold then turning the relay off.

Home screen should show whether the relay is on or off with images “swon.png and swoff.png” . They are already on the memory card folder that I sent you. Here is the effect that I am after.



I would like to have the option to have the fans turn on a few times a day if selected. The air circulation helps dry the plants leaves so that water doesn’t sit and make them soggy and die. It also helps plant growth. I believe that having two options would be very viable. I will probable set one for 5 min and the second for say 10 min or longer. This is just to substitute a breeze. I will have three fans in my vivarium. One in the back behind the background as seen here: <http://s1014.photobucket.com/user/Ericsenase/media/Mobile%20Uploads/20130817_144625_zpsf054d3ee.jpg.html> and two inside fans that look like this but are smaller and camouflaged: <http://i.ytimg.com/vi/T39MVYCXU1I/hqdefault.jpg>

\*\*\*FOGGER

Realistically the fogger can be obsolete since I have a misting system but I like the look and feel of it. I currently have my fogger running at 6am to help emulate due on the ground and it runs for 5 min. My mister does the work throughout the day. I will probably only use this once a day but I can imagine that someone would want to use this more often hence the second option.

Having a humidify/fogger helps to bring the humidity up quick so really only a couple of minutes should do the trick but I have ready of some people that leave it run for 30 min at a time, several times a day to keep the humidity as high as they can. This of course will depend on what plants and animals are being kept in the vivarium.

Once the humidity is triggered by the set time, turn relay on “FOGGER1 A3” and show the active relay on the homepage. Once it is back off, show the change. .



\*\*\*MISTING

Misting is probably the single most important thing in a vivarium with plants and reptiles. The watering helps the plants grow as long as the water doesn’t saturate the leaves and make them wilt and rot, hence why the fans are important. I am not sure if you are aware but frogs don’t drink water. It is observed through their skin. I wish I could have more then just two options for misting. I think that 4 would be perfect. I really liked the way that robsworld had one of his screens but am not sure how to implement it in this project. It has four screen options on the left and the main screen on the right. This is the screen that I was taking about. <http://s6.postimg.org/54gk3ud3l/Schedule_Dosing.png>

**Relay Outputs:**

Light#1

Controlled on the light Settings Page under the “LIGHT 1” settings. On turns the relay on at the set time and of course OFF turns the relay off at a set time. Light#1 will be used for daytime lights to help plant and animal grown and health.

Light#2

Essentially the same as above except this is “LIGHT 2”. This light will be used solely for a blue LED to emulate the moon and sky light.

Temp

This will be controlled on the Temp Page. If the “LOW TEMP” reaches the user entered threshold, it will turn on the relay that controls an undertank heater or water hearter.

Fog

This will be controlled solely from the Fogger Page. It will have two options that will trigger the relay if enabled.

Mist

This will be controlled solely from the misting page. Hopefully we will be able to setup 4 options of misting’s throughout the day set by the user at specific times.

Fan

This relay will have two triggers. One will be controlled by the Fan Settings page with 2 options to enable. The other trigger will be similar to the TEMP relay. On the Temp Page, if the temp goes above the user entered threshold on “HI TEMP”, it will turn on the fan to circulate the air.