User manual

1. <u>GEN</u>	ERALITIES ABOUT THE AQUAPONICS SYSTEM ?	2
2. HOV	TO CONNECT ELECTRONIC COMPONENTS?	2
2.1. LC	D	3
2.2. TE	MPERATURE SENSOR	4
3. <u>COD</u>	E PROGRAMMATION	4
3.1. Mo	DDIFY THE CLOCK	4
3.2. Sw	TTCH THE WATER PUMP	4

1. Generalities about the aquaponics system?

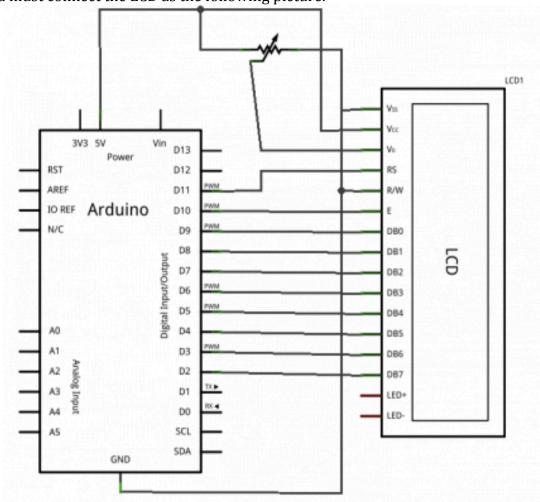
As all aquarium, you must be careful with the glass and sometimes need to clean the fish tank.

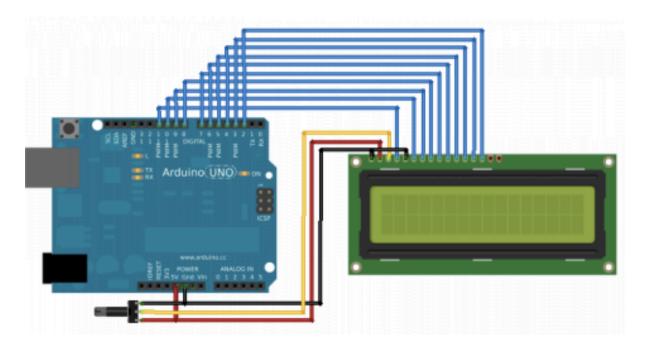
2. How to connect electronic components?

Some components in the auqaponics system can be changed. You can find these components in the following points:

2.1.LCD

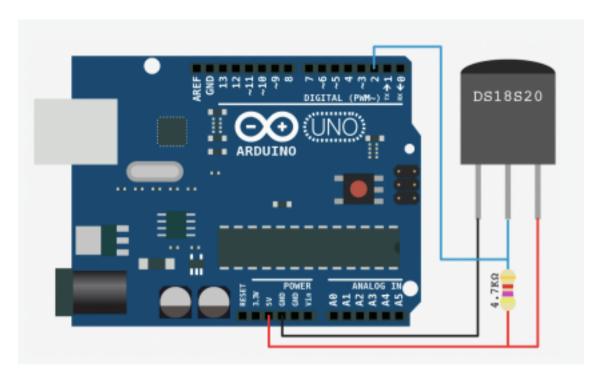
You must connect the LCD as the following picture.





2.2. Temperature sensor

Without the phidget, the temperature sensor must be connected as the following picture but the connection to the Arduino motherboard can be different.



3. Code programmation

3.1. Modify the clock

The clock is set at 12:00:00, if you want to modify the actual time, you need to restart the arduino board few seconds before 12a.m.

3.2. Switch the water pump

The actual code programation to switch ON and OFF the water pump is set to 5 min OFF and 10 s ON. To change the time, go to this line in the actual code programation:

```
unsigned long/*CHANGE TIME HERE ----> */time_waterpump_OFF = 5/* minutes */; unsigned int/*CHANGE TIME HERE ----> */time_waterpump_ON = 10/* secondes */; unsigned int/*CHANGE TIME HERE ----> */time_read_Tsensor = 5/* secondes */;
```