Pipeline Water Detector system

Every alternate day in morning had to start motor and check for water from 7 am to 8 am .

This tool automatically runs the motor between a time slot , to check if water is present or not. If it finds the water , motor continu running .

Benefits

Pipeline / municipality water detector helps in automatically detect water in line .

- ➔ **Auto Run motor**
  Automatically run motor whenever sensor wires touches the water
- ➔ **Try Run Mode**
  Run motor temporary for 1 min and check if water is present.
- ➔ **Auto off**
  Whenever water goes , tool waits for 1-2 min and turns off the motor.

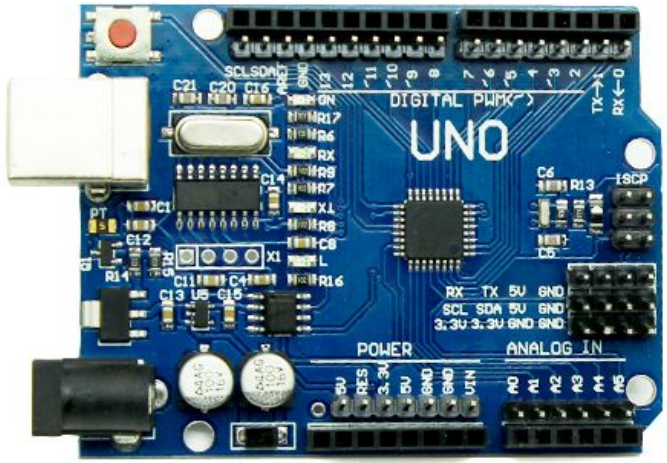
Requirements

Following are the requirements for the project

1. **Arduino Chip** - ATmega328P
2. **9v-12v Adapter** - to power ,
3. **Liquid / Water detector** - to pass signal to module.
4. **Arduino timer module** - DS3231
5. **Arduino Soil Moisture Sensor Module**- to sense water signal
6. **SSD Relay** - 5 v support , 16 amp to turn off and on motor.
7. **Jumper and pvc wires** - wire to connect
8. **Arduino LCD** - (optional) lcd to display status .
9. **Digital Timer** - (optional) power/energy save for long run.
10. **Box** - (optional) to keep your material.

Arduino Chip - ATmega328P

ATmega328P or bigger model

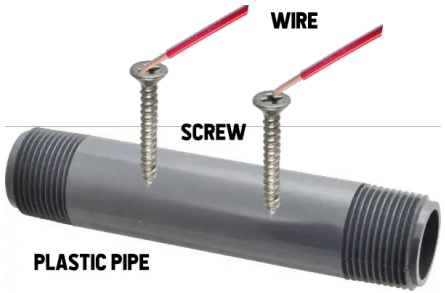


9v-12v Adapter or 5v USB power

or

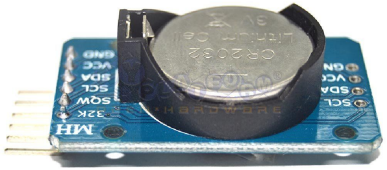
Liquid / Water detector

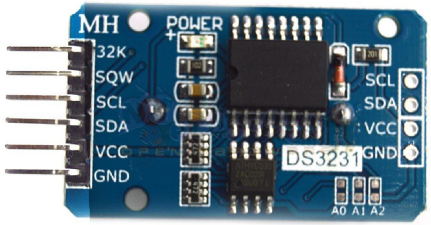
or



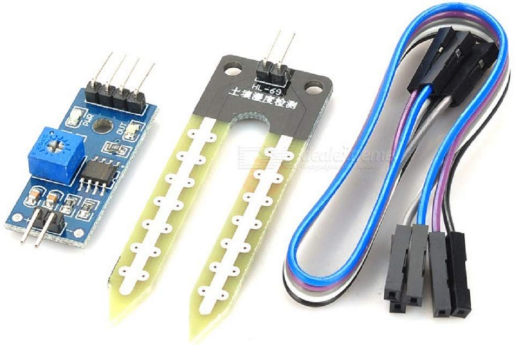
Arduino timer module

DS3231





Arduino Soil Moisture Sensor Module



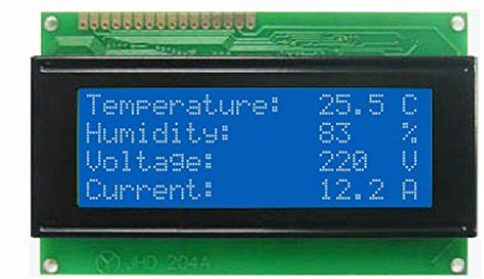
SS Relay

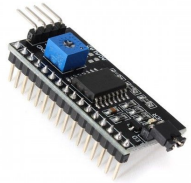
5 v support , 16 amp to turn off and on motor.

Jumper and pvc wires

Arduino LCD

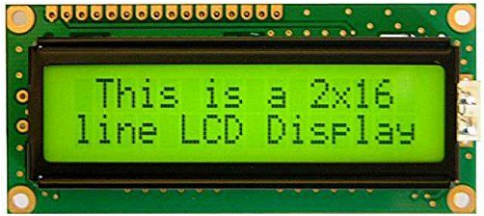
(optional) lcd to display status .

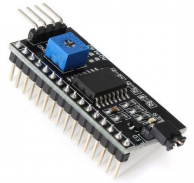




20x4 display with i2c module : The one i used

or

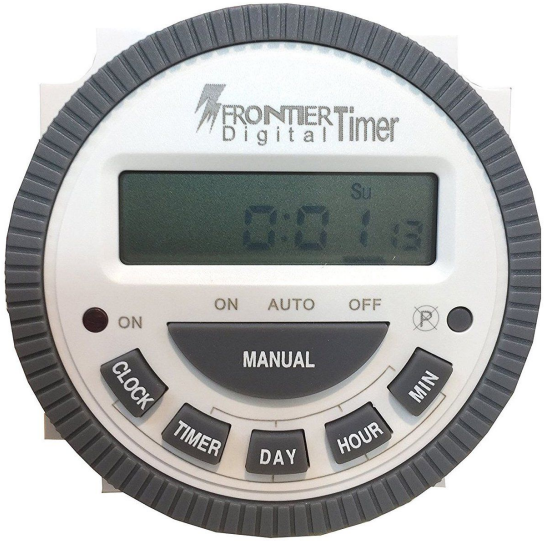




2X16 display with i2c module: little smaller but works

Digital Timer

(optional) power/energy save for long run.



Plastic Box

(optional) to keep your material.