>> CODE FOR THE ARDUINO WITH THE VIBRATION SENSOR <<

```
#include <SoftwareSerial.h>

int ledPin = 13;
int EP = 9;         // Pin of the SW-420 output
int txPin = 2;
int rxPin = 3;
int dato = 10;      // Data to send

SoftwareSerial wifi(rxPin, txPin);

void setup() {
  pinMode(ledPin, OUTPUT);
  pinMode(EP, INPUT);
  Serial.begin(9600);
  wifi.begin(9600);
}

void loop() {
  long medida = TP_init();    // Call to function to ask for a value from the
sensor
  delay(50);

  if(medida > 1000)           // If the measured value is high...
  {
    Serial.println(medida);
    digitalWrite(ledPin, HIGH);

    // Here's where I try to send the data to the ESP88266 Transmitter
    String i1 = "sendData(\"myIp\", \"send.php?=";
    String i2 = i1+dato;
    String i3 = i2+"\");";
    Serial.println(i3);
    wifi.write(dato);
    wifi.println(i3);
  }
  else
  {
    digitalWrite(ledPin, LOW);
  }
```

```
  }

  long TP_init()
  {
    delay(10);
    long medida = pulseIn(EP, HIGH);
    return medida;
  }

  >> CODE FOR THE ESP8266 WHO WILL SEND THE DATA <<
  suc = false;
  function sendData( host, pathData )
      suc = false;
      print("GoSending!");
      -- A simple http client
      conn=net.createConnection(net.TCP, 0)
      conn:on("receive", function(conn, payload)
          if(string.find(payload, "200 OK")~=nil) then
              suc = true;
              print("AllDone")
          else
              suc = false;
          end
      end)
      conn:on("connection", function(c)
          print("connected");
          conn:send("GET /".. pathData .." HTTP/1.1\r\nHost: ".. host .."\r\n"
              .."Connection: keep-alive\r\nAccept: */*\r\n\r\n")
          end)
      conn:on("disconnection", function()
          if(suc==false) then
              print("ErrorSending")
          end
      end)
      conn:on("reconnection", function() print("reconnection") end )
      conn:connect(80,host)
  end

  >> CODE FOR THE ARDUINO WITH THE LCD SCREEN (WIP) <<
  #include <SoftwareSeria.h>


  int ledPin = 13;
  int txPin = 2;
  int rxPin = 3;
```

```
SoftwareSerial wifi(rxPin, txPin);

void setup() {
   pinMode(ledPin, OUTPUT);
   Serial.begin(9600);
   wifi.begin(9600);
   digitalWrite(ledPin, LOW);
   delay(1000);
}

void loop() {
  while(wifi.available())
  {
     Serial.write(wifi.read());
  }

  if(wifi.available())
  {
    digitalWrite(ledPin, HIGH);
  }
  else
  {
    digitalWrite(ledPin, LOW);
  }
}

>> CODE FOR THE ESP8266 WHO WILL RECIEVE THE DATA <<
wifi.setmode(wifi.STATION)
wifi.sta.config("mynet","pass")
ip = wifi.sta.getip()
print(ip)

srv=net.createServer(net.TCP)
srv:listen(80,function(conn)
   conn:on("receive",function(conn,payload)
      payload = payload + "\n"
      uart.write(0, payload)
    conn:on("sent",function(conn) conn:close() end)
   end)


uart.on("data", function(data)
   -- When ESP8266 receives data from Arduino, it will trigger this event
end, 0)
```