

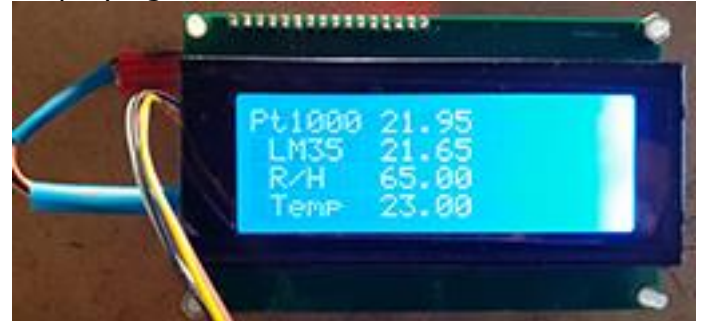
Temperature sensors

This project is made to be use with a two wired Pt1000, LM35 and DHT22 temperature sensors adjustment and testing.

Assembly



Displaying



Component list Arduino UNO R3




```

// DHT Temp/RH sensor
#define DHTPIN 7 // what pin we're connected to
#define DHTTYPE DHT22 // DHT 22 (AM2302)
DHT dht(DHTPIN, DHTTYPE); // Initialize DHT sensor for normal 16mhz Arduino

//Variables
float hum; //Stores humidity value
float temp; //Stores temperature value
float Vout0; //analogue input A0, Pt1000
float Volt0; //analogue voltage input A0
float Volt1; //analogue voltage input A1
float Temp; // calculated temperature

void setup() {
Serial.begin(9600); // baud rate serial port (USB)
Wire.begin();
lcd.init();
dht.begin();
}

void loop() {
delay(2000);
//Read data and store it to variables hum and temp
hum = dht.readHumidity();
temp= dht.readTemperature();

// Pt1000
Vout0 =((analogRead(A0)));
delay (10);
Volt0 = ((Vout0-502)/8.2);
// Temp = Volt0;
Volt1 =((analogRead(A1))/2.125);
delay (10);

// LCD()
//lcd.clear();
lcd.backlight();

lcd.setCursor(0,0); // Collom/Row
lcd.print("Pt1000");
lcd.setCursor(7,0); // Collom/Row
lcd.print(" ");
lcd.setCursor(7,0); // Collom/Row
lcd.print(Volt0);

lcd.setCursor(1,1); // Collom/Row
lcd.print("LM35");
lcd.setCursor(7,1); // Collom/Row
lcd.print(" ");
lcd.setCursor(7,1); // Collom/Row
lcd.print(Volt1);

```

```
lcd.setCursor(1,2); // Collom/Row
lcd.print("R/H");
    lcd.setCursor(7,2); // Collom/Row
    lcd.print("  ");
    lcd.setCursor(7,2); // Collom/Row
    lcd.print(hum);

lcd.setCursor(1,3); // Collom/Row
lcd.print("Temp");
    lcd.setCursor(7,3); // Collom/Row
    lcd.print("  ");
    lcd.setCursor(7,3); // Collom/Row
    lcd.print(temp);

delay (1980); // total 4sec. delay
}
```