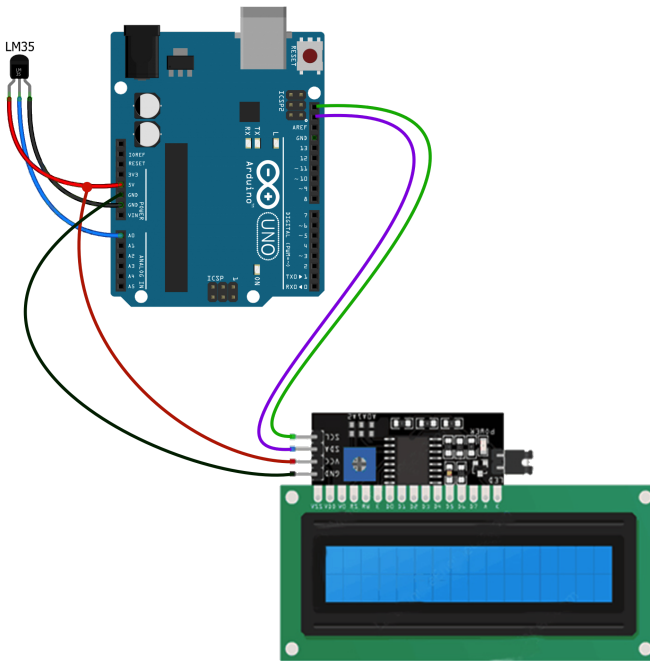


# LM35 with I2C Display

## Diagram



## Library

LiquidCrystal\_I2C-1.1.2.zip for the LCD.

## Code

```
#include <LiquidCrystal_I2C.h>

LiquidCrystal_I2C lcd(0x27,16,2);

void setup(){
  Serial.begin(9600);
  lcd.init();
  lcd.backlight();
}
```

```
float vcc = 5.0;  
float voltage = rawData * (vcc / 1024.0);  
float temperature = voltage * 100;  
  
Serial.print("Temperature: ");  
lcd.setCursor(0,0);  
lcd.print("Temperature: ");  
  
Serial.print(temperature);  
Serial.println(" *C");  
lcd.setCursor(0,1);  
lcd.print(temperature);  
lcd.print(" ");  
lcd.print(char(223));  
lcd.print("C");  
  
delay(500);  
}
```

The line to pay attention to is the following:

```
LiquidCrystal_I2C lcd(0x27,16,2);
```

It sets the LCD address to 0x27 for a 16 chars and 2 line display