

LEARN

The Temp Sensor for Arduino is the first project of a joint Modern Device-Liquidware collaboration.

It's capable of turning the Arduino into an instant thermometer, plugging directly into Arduino Duemilanove Analog Pins 2-5.

The TMP421 chip is a 12 bit I2C chip that works from minus -40 to 125 degrees C, so the sensor is able to resolve .04 degrees C per bit.

The absolute accuracy is guaranteed to be +/- 1 degree C.

The relative resolution should make the sensor useful for a range of higher resolution activities such as sniffing out drafts around windows.

CONNECT

Sensor		Arduino
Ground	→	Analog 2
Vin	→	Analog 3
SDI	→	Analog 4
SCL	→	Analog 5

CODE

```
#include "Wire.h"
#include <LibTemperature.h>

LibTemperature temp =
LibTemperature(0);

void setup() {
  Serial.begin(9600);
}

void loop() {
  Serial.print("Temp: ");

  Serial.print(temp.GetTemperature());
  ;
  Serial.println(" degC");
  delay(100);
}
```

SENSOR CHEAT SHEET