

maîtrisez les microcontrôleurs à l'aide d'Arduino

```
Wire.write(MLX90614_READ_TEMPERATURE);  
// Restart without sending a stop condition.  
Wire.endTransmission(false);  
Wire.requestFrom(MLX90614_ADDRESS,3,true);  
if (Wire.available() != 0) lsb = Wire.read();  
if (Wire.available() != 0) msh = Wire.read();  
if (Wire.available() != 0) pec = Wire.read();  
Wire.endTransmission(true);
```

```
    crc = 0;  
    MLX90614_crc_update(MLX90614_ADDRESS<<1);  
    MLX90614_crc_update(MLX90614_READ_TEMPERATURE);  
    MLX90614_crc_update((MLX90614_ADDRESS<<1)|0x01);  
    MLX90614_crc_update(lsb);  
    MLX90614_crc_update(msh);  
    if (pec==crc ^ ((msh<<0x7f)<<1) + lsb);  
    return value;  
}  
  
void setup(void)  
{  
    Serial.begin(115200);  
    pinMode(alarm, OUTPUT);  
    digitalWrite(alarm, LOW);  
    pinMode(MLX90614_ADDRESS, INPUT);  
    pinMode(MLX90614_SCL, INPUT);  
    pinMode(MLX90614_SDA, INPUT);  
    Wire.begin(MLX90614_ADDRESS);  
}  
  
void loop(void)  
{  
    delay(100);  
  
    float t = MLX90614_read();  
    t = t*0.02 - 273.15;  
    Serial.println(t);  
  
    if (t>TEMPERATURE_MAX)  
    {  
        Serial.println("alarm!");  
        digitalWrite(alarm, HIGH);  
        delay(3000);  
        digitalWrite(alarm, LOW);  
        delay(3000);  
    }  
}
```

