
MicroPython MLX90614 Library Documentation

Release 1.0

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Contents:

1.1 MLX90614

class `mlx90614.MLX90614` (*i2c* [, *address*])

The basic class for handling the communication with the sensor.

The `i2c` parameter is an initialized I²C bus, and the optional `address` specifies which sensor to connect to, if you have more than one and have changed their addresses with the `Addr` pin.

All temperatures are returned in Celsius.

read_ambient_temp ()

Get the ambient sensor temperature

read_object_temp ()

Get the object temperature from the first or only thermopile

read_object2_temp ()

Get the object temperature the second thermopile, if it exists

Usage Examples

Connect your sensor in following way:

- vin 3V
- gnd gnd
- scl gpio5
- sda gpio4

Now, to make basic measurement:

```
import mlx90614
from machine import I2C, Pin
i2c = I2C(scl=Pin(5), sda=Pin(4))
sensor = mlx90614.MLX90614(i2c)
print(sensor.read_ambient_temp())
print(sensor.read_object_temp())
if sensor.dual_zone:
    print(sensor.object2_temp)
```

To perform continuous measurement:

```
import time
while True:
    print(sensor.read_ambient_temp(), sensor.read_object_temp())
    time.sleep_ms(500)
```

There are some useful properties:

- `.dual_zone` - set to True if the sensor has two thermopiles
- `.ambient_temp` - equivalent to `read_ambient_temp()`, also works for object and object2

CHAPTER 3

Indices and tables

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