
AdafruitMPL115A2 Library Documentation

Release 1.0

Carter Nelson

Jul 09, 2020

Contents

1	Dependencies	3
1.1	Installing from PyPI	3
2	Usage Example	5
3	Contributing	7
4	Documentation	9
5	Table of Contents	11
5.1	Simple test	11
5.2	adafruit_mpl115a2	11
5.2.1	Implementation Notes	11
6	Indices and tables	13
	Python Module Index	15
	Index	17

CircuitPython driver for MPL115A2 I2C Barometric Pressure/Temperature Sensor.

This driver depends on:

- [Adafruit CircuitPython](#)
- [Bus Device](#)

Please ensure all dependencies are available on the CircuitPython filesystem. This is easily achieved by downloading the [Adafruit library and driver bundle](#).

1.1 Installing from PyPI

On supported GNU/Linux systems like the Raspberry Pi, you can install the driver locally [from PyPI](#). To install for current user:

```
pip3 install adafruit-circuitpython-mp1115a2
```

To install system-wide (this may be required in some cases):

```
sudo pip3 install adafruit-circuitpython-mp1115a2
```

To install in a virtual environment in your current project:

```
mkdir project-name && cd project-name
python3 -m venv .env
source .env/bin/activate
pip3 install adafruit-circuitpython-mp1115a2
```


CHAPTER 2

Usage Example

See usage examples in the examples folder.

CHAPTER 3

Contributing

Contributions are welcome! Please read our [Code of Conduct](#) before contributing to help this project stay welcoming.

CHAPTER 4

Documentation

For information on building library documentation, please check out [this guide](#).

5.1 Simple test

Ensure your device works with this simple test.

Listing 1: examples/mp115a2_simpletest.py

```
1 import time
2 import board
3 import busio
4 import adafruit_mpl115a2
5
6 i2c = busio.I2C(board.SCL, board.SDA)
7
8 mpl = adafruit_mpl115a2.MPL115A2(i2c)
9
10 while True:
11     print("Pressure: {}    Temperature: {}".format(mpl.pressure, mpl.temperature))
12     time.sleep(1)
```

5.2 adafruit_mpl115a2

CircuitPython driver for MPL115A2 I2C Barometric Pressure/Temperature Sensor.

- Author(s): Carter Nelson

5.2.1 Implementation Notes

Hardware:

- MPL115A2 I2C Barometric Pressure/Temperature Sensor

Software and Dependencies:

- Adafruit CircuitPython firmware for the supported boards: <https://github.com/adafruit/circuitpython/releases>
- Adafruit's Bus Device library: https://github.com/adafruit/Adafruit_CircuitPython_BusDevice

class `adafruit_mpl115a2.MPL115A2` (*i2c, address=96*)
Driver for MPL115A2 I2C barometric pressure / temperature sensor.

pressure

The pressure in hPa.

temperature

The temperature in deg C.

CHAPTER 6

Indices and tables

- `genindex`
- `modindex`
- `search`

a

`adafruit_mpl115a2`, [11](#)

A

adafruit_mpl115a2 (*module*), 11

M

MPL115A2 (*class in adafruit_mpl115a2*), 12

P

pressure (*adafruit_mpl115a2.MPL115A2 attribute*),
12

T

temperature (*adafruit_mpl115a2.MPL115A2 at-
tribute*), 12