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# **AdafruitMPL115A2 Library Documentation**

*Release 1.0*

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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

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### Usage Example

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See usage examples in the examples folder.



## CHAPTER 3

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### Contributing

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



## CHAPTER 4

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### Documentation

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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/mdl115a2\_simpletest.py

```
1 # SPDX-FileCopyrightText: 2021 ladyada for Adafruit Industries
2 # SPDX-License-Identifier: MIT
3
4 import time
5 import board
6 import busio
7 import adafruit_mpl115a2
8
9 i2c = busio.I2C(board.SCL, board.SDA)
10
11 mpl = adafruit_mpl115a2.MPL115A2(i2c)
12
13 while True:
14     print("Pressure: {}    Temperature: {}".format(mpl.pressure, mpl.temperature))
15     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](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

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### Indices and tables

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