AdafruitMPL115A2 Library Documentation

Release 1.0

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Jan 23, 2020

Contents

CircuitPython driver for MPL115A2 I2C Barometric Pressure/Temperature Sensor.

Dependencies

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-mpl115a2
```

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

```
sudo pip3 install adafruit-circuitpython-mpl115a2
```

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-mpl115a2
```

Usage Example

See usage examples in the examples folder.

Contributing

Contributions are welcome! Please read our Code of Conduct before contributing to help this project stay welcoming.

Documentation

For information on building library documentation, please check out this guide.

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5.1 Simple test

Ensure your device works with this simple test.

Listing 1: examples/mpl115a2_simpletest.py

```python
import time
import board
import busio
import adafruit_mpl115a2

i2c = busio.I2C(board.SCL, board.SDA)

mpl = adafruit_mpl115a2.MPL115A2(i2c)

while True:
    print("Pressure: {}   Temperature: {}".format(mpl.pressure, mpl.temperature))
    time.sleep(1)
```

5.2 `adafruit_mpl115a2`

CircuitPython driver for MPL115A2 I2C Barometric Pressure/Temperature Sensor.

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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

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