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**AdafruitBLE<sub>L</sub>YWS03MMC** *Library Documenta*  
**Release 1.0**

**Adafruit Industries**

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BLE Support for Xiaomi LYWSD03MMC Thermometer/Hygrometer



## DEPENDENCIES

This driver depends on:

- `Adafruit_CircuitPython`
- `adafruit_ble`

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





## 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-ble-lywsd03mmc
```

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

```
sudo pip3 install adafruit-circuitpython-ble-lywsd03mmc
```

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-ble-lywsd03mmc
```



## DOCUMENTATION

API documentation for this library can be found on [Read the Docs](#).



## **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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### 6.1 Simple test

Ensure your device works with this simple test.

Listing 1: examples/ble\_lywsd03mmc\_simpletest.py

```
1 # SPDX-FileCopyrightText: 2021 Dan Halbert, written for Adafruit Industries
2 #
3 # SPDX-License-Identifier: Unlicense
4
5 import time
6
7 import adafruit_ble
8 from adafruit_ble.advertising.standard import Advertisement
9 from adafruit_ble_lywsd03mmc import LYWS03MMCSERVICE
10
11 # PyLint can't find BLERadio for some reason so special case it here.
12 ble = adafruit_ble.BLERadio() # pylint: disable=no-member
13
14 connection = None
15
16 while True:
17     print("Scanning...")
18     for adv in ble.start_scan(Advertisement, timeout=5):
19         if adv.complete_name == "LYWS03MMC":
20             connection = ble.connect(adv)
21             print("Connected")
22             break
23
24     # Stop scanning whether or not we are connected.
25     ble.stop_scan()
26
27     if connection and connection.connected:
28         service = connection[LYWS03MMCSERVICE]
29         while connection.connected:
30
31             print(
32                 "Temperature, Humidity",
33                 service.temperature_humidity,
```

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```
34     )
35     time.sleep(5)
```

## 6.2 adafruit\_ble\_lywsd03mmc

BLE Support for Xiaomi LYWSD03MMC Thermometer/Hygrometer

- Author(s): Adafruit Industries

### 6.2.1 Implementation Notes

**Hardware:**

**Software and Dependencies:**

- Adafruit CircuitPython firmware for the supported boards: <https://github.com/adafruit/circuitpython/releases>

**class** `adafruit_ble_lywsd03mmc.LYWSD03MMCSERVICE`(*service=None*)  
Service for reading from an LYWSD03MMC sensor.

**property** `temperature_humidity`  
Return a tuple of (temperature, humidity).

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