Adafruitsht31 Library Documentation

Release 1.0

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Contents

CircuitPython module for the SHT31-D temperature and humidity sensor.

CHAPTER 1

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.

CHAPTER 2

Usage Example

You must import the library to use it:

```
import adafruit_sht31
```

This driver takes an instantiated and active I2C object (from the `busio` or the `bitbangio` library) as an argument to its constructor. The way to create an I2C object depends on the board you are using. For boards with labeled SCL and SDA pins, you can:

```
from busio import I2C
from board import SCL, SDA

i2c = I2C(SCL, SDA)
```

Once you have created the I2C interface object, you can use it to instantiate the sensor object:

```
sensor = adafruit_sht31.SHT31(i2c)
```

And then you can start measuring the temperature and humidity:

```
print(sensor.temperature)
print(sensor.relative_humidity)
```

T API Reference ==========

2.1 adafruit_sht31

This is a CircuitPython driver for the SHT31-D temperature and humidity sensor.

class adafruit_sht31.**SHT31**(*i2c_bus*, *address=<sphinx.ext.autodoc._MockObject object>*)

A driver for the SHT31-D temperature and humidity sensor.

heater

Control the sensor internal heater.

relative_humidity
The measured relative humidity in percent.

reset()
Execute a Soft RESET of the sensor.

status
The Sensor status.

temperature
The measured relative humidity in percent.

CHAPTER 3

Contributing

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

CHAPTER 4

Building locally

To build this library locally you'll need to install the circuitpython-build-tools package.

```
python3 -m venv .env
source .env/bin/activate
pip install circuitpython-build-tools
```

Once installed, make sure you are in the virtual environment:

```
source .env/bin/activate
```

Then run the build:

```
circuitpython-build-bundles --filename_prefix adafruit-circuitpython-sht31 --library_
↪location .
```

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