AdafruitDS18X20 Library Documentation

Release 1.0

Carter Nelson

Feb 26, 2018

Contents

CircuitPython driver for Dallas 1-Wire temperature sensor.

CHAPTER 1

Dependencies

This driver depends on:

- Adafruit CircuitPython
- Adafruit OneWire

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

```
import board
from adafruit_onewire.bus import OneWireBus
from adafruit_ds18x20 import DS18X20
ow_bus = OneWireBus(board.D2)
ds18 = DS18X20(ow_bus, ow_bus.scan()[0])
ds18.temperature
```

CHAPTER 3

API Reference

3.1 adafruit_ds18x20

Driver for Dallas 1-Wire temperature sensor.

- Author(s): Carter Nelson

class adafruit_ds18x20.**DS18X20**(*bus*, *address*)
Class which provides interface to DS18X20 temperature sensor.

resolution
The programmable resolution. 9, 10, 11, or 12 bits.

temperature
The temperature in degrees Celsius.

CHAPTER 4

Contributing

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

CHAPTER 5

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-ds18x20 --
↪library_location .
```

Python Module Index

a

Index