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# **sparkfun\_as6212\_py**

***Release 0.0.2***

**SparkFun Electronics**

**Aug 27, 2021**



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Python module for the [SparkFun Digital Temperature Sensor Breakout - AS6212 \(Qwiic\)](#)

This python package is a port of the existing [SparkFun AS6212 Qwiic Arduino Library](#)

This package can be used in conjunction with the overall [SparkFun qwiic Python Package](#)

New to qwiic? Take a look at the entire [SparkFun qwiic ecosystem](#).



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CHAPTER  
**ONE**

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**CONTENTS**

- *Supported Platforms*
- *Dependencies*
- *Installation*
- *Documentation*
- *Example Use*



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**CHAPTER  
TWO**

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## **SUPPORTED PLATFORMS**

This Python package currently supports the following platforms:

- Raspberry Pi



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**CHAPTER  
THREE**

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## **DEPENDENCIES**

This driver package depends on the qwiic I2C driver: [Qwiic\\_I2C\\_Py](#)



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**CHAPTER  
FOUR**

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**DOCUMENTATION**

This module documentation is hosted at [ReadTheDocs](#)



**INSTALLATION**

## 5.1 PyPi Installation

This repository is hosted on PyPi as the [sparkfun-qwiic-as6212](#) package. On systems that support PyPi installation via pip, this library is installed using the following commands

For all users (note: the user must have sudo privileges):

```
sudo pip install sparkfun-qwiic-as6212
```

For the current user:

```
pip install sparkfun-qwiic-as6212
```

To install, make sure the setuptools package is installed on the system.

Direct installation at the command line:

```
python setup.py install
```

To build a package for use with pip:

```
python setup.py sdist
```

A package file is built and placed in a subdirectory called dist. This package file can be installed using pip.

```
cd dist  
pip install sparkfun-qwiic-as6212-<version>.tar.gz
```



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CHAPTER  
SIX

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## EXAMPLE USE

See the examples directory for more detailed use examples.

```
from __future__ import print_function
import qwiic_as6212
import time
import sys

def runExample():

    print("\nSparkFun Qwiic AS6212 Sensor Example 1\n")
    myTempSensor = qwiic_as6212.QwiicAs6212Sensor()

    if myTempSensor.is_connected == False:
        print("The Qwiic AS6212 Sensor device isn't connected to the system. Please",
        ↪check your connection", \
              file=sys.stderr)
        return

    myTempSensor.begin()
    time.sleep(1)

    print("Initialized.")

    # Initialize configuration settings
    # These settings are saved in the sensor, even if it loses power

    # set the number of consecutive faults before triggering alarm.
    # valid options: 1,2,3 or 4
    myTempSensor.set_consecutive_faults(1)

    # set the polarity of the Alert. (0:Active LOW, 1:Active HIGH).
    myTempSensor.set_alert_polarity(myTempSensor.AS6212_ALERT_ACTIVE_LOW)

    # set the sensor in Comparator Mode (0) or Interrupt Mode (1).
    myTempSensor.set_interrupt_mode(myTempSensor.AS6212_MODE_COMPARATOR)

    # set the Conversion Cycle Time (how quickly the sensor gets a new reading)
    myTempSensor.set_conversion_cycletime(myTempSensor.AS6212_CONVERSION_CYCLE_TIME_
    ↪250MS)
```

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```
# set T_HIGH, the upper limit to trigger the alert on
myTempSensor.set_high_temp_f(78.0) # set T_HIGH in F
# myTempSensor.set_high_temp_c(25.56) # set T_HIGH in C

# set T_LOW, the lower limit to shut turn off the alert
myTempSensor.set_low_temp_f(75.0) # set T_LOW in F
# myTempSensor.set_low_temp_c(23.89) # set T_LOW in C

print("TLOW F: ", myTempSensor.read_low_temp_f())
print("THIGH F: ", myTempSensor.read_high_temp_f())

while True:
    myTempSensor.set_sleep_mode(0) # turn sleep mode off (0)
    time.sleep(0.250) # allow time to wake up and complete first conversion

    temperature = myTempSensor.read_temp_f()

    # Check for alert
    alertRegisterState = myTempSensor.get_alert_status()           # read the Alert
    ↪from register

    # Place sensor in sleep mode to save power.
    # Current consumption typically ~0.1uA.
    myTempSensor.set_sleep_mode(1) # turn sleep mode on (1)

    print("Temperature: ", temperature, "\tAlert Register: ", alertRegisterState)
    time.sleep(1)

if __name__ == '__main__':
    try:
        runExample()
    except (KeyboardInterrupt, SystemExit) as exErr:
        print("\nEnding Example 1")
        sys.exit(0)
```

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### 7.1 API Reference

#### 7.1.1 `qwiic_as6212`

Python module for the [SparkFun Digital Temperature Sensor Breakout - AS6212 (Qwiic)](<https://www.sparkfun.com/products/18521>)

This python package is a port of the existing [SparkFun Qwiic AS6212 Sensor Arduino Library]([https://github.com/sparkfun/SparkFun\\_TMP102\\_Arduino\\_Library/tree/master/examples](https://github.com/sparkfun/SparkFun_TMP102_Arduino_Library/tree/master/examples))

This package can be used in conjunction with the overall [SparkFun qwiic Python Package]([https://github.com/sparkfun/Qwiic\\_Py](https://github.com/sparkfun/Qwiic_Py))

New to qwiic? Take a look at the entire [SparkFun qwiic ecosystem](<https://www.sparkfun.com/qwiic>).

`class qwiic_as6212.QwiicAs6212Sensor(address=None, i2c_driver=None)`

#### Parameters

- **address** – The I2C address to use for the device. If not provided, the default address is used.
- **i2c\_driver** – An existing i2c driver object. If not provided a driver object is created.

**Returns** The AS6212 Sensor device object.

**Return type** Object

#### `begin()`

Initialize the operation of the Soil Moisture Sensor module :return: Returns true if the initialization was successful, otherwise False. :rtype: bool

#### `property connected`

Determine if a Soil MoistureSensor device is connected to the system.. :return: True if the device is connected, otherwise False. :rtype: bool

#### `get_address()`

Returns the device address

#### `get_alert_polarity()`

Get the polarity of Alert AS6212\_ALERT\_ACTIVE\_HIGH (1) AS6212\_ALERT\_ACTIVE\_LOW (0)

#### `get_alert_status()`

Get the status of the alert bit (0 or 1)

**get\_consecutive\_faults()**

Gets the number of consecutive faults that need to happen in a row before alert is changed. valid settings are 1,2,3 or 4 but this correspond to other bit values in the configuration register bits 11 and 12

**get\_conversion\_cycletime()**

Gets the conversion cycle time (aka conversion rate) in teh config reg Returns the cycle time in milliseconds: (125/250/1000/4000)

**get\_interrupt\_mode()**

Get the interrupt mode bit AS6212\_MODE\_COMPARATOR (0) AS6212\_MODE\_INTERRUPT (1)

**get\_single\_shot\_status()**

gets the status of the single shot bit from the config register 0 = No conversion ongoing / conversion finished 1 = Start single shot conversion / conversion ongoing

**get\_sleep\_mode()**

gets the status of the sleep mode bit from the config register

**is\_connected()**

Determine if a Soil MoistureSensor device is conncted to the system.. :return: True if the device is connected, otherwise False. :rtype: bool

**read\_2\_byte\_register(*register\_to\_read*)**

Reads two bytes of data from a desired register. Combines them into a single 16 bit value Returns single value

**read\_high\_temp\_c()**

Gets T\_HIGH (degrees C) alert threshold

**read\_high\_temp\_f()**

Reads T\_HIGH register in F

**read\_low\_temp\_c()**

Gets T\_LOW (degrees C) alert threshold

**read\_low\_temp\_f()**

Reads T\_LOW register in F

**read\_temp\_c()**

Reads the results from the sensor :rtype: integer

**read\_temp\_f()**

Reads the results from the sensor :rtype: integer

**set\_alert\_polarity(*polarity*)**

Set the polarity of Alert AS6212\_ALERT\_ACTIVE\_HIGH (1) AS6212\_ALERT\_ACTIVE\_LOW (0)

**set\_consecutive\_faults(*faults*)**

Set the number of consecutive faults 1 - 1 fault 2 - 2 faults 3 - 3 faults 4 - 4 faults

**set\_conversion\_cycletime(*cycletime*)**

sets the conversion cylce time (aka convrtion rate) in the config register valid settings are:

AS6212\_CONVERSION\_CYCLE\_TIME\_125MS AS6212\_CONVERSION\_CYCLE\_TIME\_250MS  
AS6212\_CONVERSION\_CYCLE\_TIME\_1000MS AS6212\_CONVERSION\_CYCLE\_TIME\_4000MS

**set\_high\_temp\_c(*temperature*)**

Sets THIGH (degrees C) alert threshold

**set\_high\_temp\_f(*temperature*)**

Sets T\_HIGH (degrees F) alert threshold

```

set_interrupt_mode(mode)
    sets the interrupt mode bits in the config register
    valid options are: AS6212_MODE_COMPARATOR (0) AS6212_MODE_INTERRUPT (1)

set_low_temp_c(temperature)
    Sets T_LOW (degrees C) alert threshold

set_low_temp_f(temperature)
    Sets T_LOW (degrees F) alert threshold

set_sleep_mode(mode)
    sets the sleep mode bit (on or off) in the config register
    valid options are: 0 = SLEEP MODE OFF 1 = SLEEP MODE ON

trigger_single_shot_conversion()
    Sets the SS mode bit in the config register Note, you must be in sleep mode for this to work

```

## 7.2 Example 1 - Basic Readings

Listing 1: examples/Example\_01\_BasicReadings.py

```

1  #!/usr/bin/env python
2  #-----
3  # Example_01_BasicReadings.py
4  #
5  # Simple Example for the Qwiic AS6212 Device
6  #-----
7  #
8  # Written by Pete Lewis, SparkFun Electronics, Aug 2021
9  #
10 # Thanks to Alex Wende and Lori Croster @ SparkFun Electronics
11 # for code examples from TMP102 Python Package, May 2021
12 # (https://github.com/sparkfun/Qwiic\_TMP102\_Py)
13 #
14 # Thanks to Brandon Williams. This library was based off his
15 # original library created 07/15/2020 and can be found here:
16 # https://github.com/will2055/AS6212-Arduino-Library/
17 #
18 # Thanks to Madison Chodikov @ SparkFun Electronics
19 # for code examples from TMP117 Arduino Library
20 # (https://github.com/sparkfun/SparkFun\_TMP117\_Arduino\_Library)
21 #
22 # This python library supports the SparkFun Electroncis qwiic
23 # qwiic sensor/board ecosystem on a Raspberry Pi (and compatable) single
24 # board computers.
25 #
26 # This python library supports the SparkFun Electroncis qwiic
27 # qwiic sensor/board ecosystem on a Raspberry Pi (and compatable) single
28 # board computers.
29 #
30 # More information on qwiic is at https://www.sparkfun.com/qwiic
31 #

```

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```
32 # Do you like this library? Help support SparkFun. Buy a board!
33 #
34 #=====
35 # Copyright (c) 2021 SparkFun Electronics
36 #
37 # Permission is hereby granted, free of charge, to any person obtaining a copy
38 # of this software and associated documentation files (the "Software"), to deal
39 # in the Software without restriction, including without limitation the rights
40 # to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
41 # copies of the Software, and to permit persons to whom the Software is
42 # furnished to do so, subject to the following conditions:
43 #
44 # The above copyright notice and this permission notice shall be included in all
45 # copies or substantial portions of the Software.
46 #
47 # THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
48 # IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
49 # FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
50 # AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
51 # LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
52 # OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
53 # SOFTWARE.
54 #=====
55 # Example 1
56 #
57
58 from __future__ import print_function
59 import qwiic_as6212
60 import time
61 import sys
62
63 def runExample():
64
65     print("\nSparkFun Qwiic AS6212 Sensor Example 1\n")
66     myTempSensor = qwiic_as6212.QwiicAs6212Sensor()
67
68     if myTempSensor.is_connected == False:
69         print("The Qwiic AS6212 Sensor device isn't connected to the system.\u21d2")
70         print("Please check your connection", \
71               file=sys.stderr)
72         return
73
74     myTempSensor.begin()
75     time.sleep(1)
76
77     print("Initialized.")
78
79     # Initialize configuration settings
80     # These settings are saved in the sensor, even if it loses power
81
82     # set the number of consecutive faults before triggering alarm.
83     # valid options: 1,2,3 or 4
```

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```

83     myTempSensor.set_consecutive_faults(1)

84

85     # set the polarity of the Alert. (0:Active LOW, 1:Active HIGH).
86     myTempSensor.set_alert_polarity(myTempSensor.AS6212_ALERT_ACTIVE_LOW)

87

88     # set the sensor in Comparator Mode (0) or Interrupt Mode (1).
89     myTempSensor.set_interrupt_mode(myTempSensor.AS6212_MODE_COMPARATOR)

90

91     # set the Conversion Cycle Time (how quickly the sensor gets a new reading)
92     myTempSensor.set_conversion_cycletime(myTempSensor.AS6212_CONVERSION_CYCLE_TIME_
93     ↪250MS)

94     # set T_HIGH, the upper limit to trigger the alert on
95     myTempSensor.set_high_temp_f(78.0) # set T_HIGH in F
96     # myTempSensor.set_high_temp_c(25.56) # set T_HIGH in C

97

98     # set T_LOW, the lower limit to shut turn off the alert
99     myTempSensor.set_low_temp_f(75.0)      # set T_LOW in F
100    # myTempSensor.set_low_temp_c(23.89)      # set T_LOW in C

101

102    print("TLOW F: ", myTempSensor.read_low_temp_f())
103    print("THIGH F: ", myTempSensor.read_high_temp_f())

104

105    while True:
106        myTempSensor.set_sleep_mode(0) # turn sleep mode off (0)
107        time.sleep(0.250) # allow time to wake up and complete first conversion

108

109        temperature = myTempSensor.read_temp_f()

110

111        # Check for alert
112        alertRegisterState = myTempSensor.get_alert_status()           # ↪
113        ↪read the Alert from register

114

115        # Place sensor in sleep mode to save power.
116        # Current consumption typically ~0.1uA.
117        myTempSensor.set_sleep_mode(1) # turn sleep mode on (1)

118

119        print("Temperature: ", temperature, "\tAlert Register: ", ↪
120        ↪alertRegisterState)
121        time.sleep(1)

122    if __name__ == '__main__':
123        try:
124            runExample()
125        except (KeyboardInterrupt, SystemExit) as exErr:
126            print("\nEnding Example 1")
            sys.exit(0)

```

## 7.3 Example 2 - Single Shot

Listing 2: examples/Example\_02\_SingleShot.py

```
1 #!/usr/bin/env python
2 #-----
3 # Example_02_SingleShot.py
4 #
5 # Simple Example for the Qwiic AS6212 Device
6 #
7 # This example uses the Single Shot Feature of the device.
8 # It puts the sensor into sleep mode, and then in order to take
9 # each reading, it calls the trigger_single_shot_conversion() function.
10 # This allows us to take single readings on demand and really
11 # keep power use to a minimum.
12 #
13 # Note, in the basic readings example, we are "waking up" the sensor
14 # (by turning sleep mode off), and then it enters continuous reading mode,
15 # and so the sensor will continue to make conversions at the set conversion cycle time. ↴(4Hz).
16 # This uses more power, but can be useful if you want to setup an alert, and can
17 # be even finer tuned by setting up the amount of desired consecutive faults.
18 #
19 # Note, using single shot readings like in this example, can also
20 # allow you to poll the SS bit (and know when the conversion is complete)
21 # SS bit = 0 = No conversion ongoing / conversion finished
22 # SS bit = 1 = Start single shot conversion / conversion ongoing
23 # This can allow you to immediate start another conversion, and increase
24 # the amount of conversions you demand.
25 #
26 # As the device exhibits a very short conversion time (~36ms-51ms), the effective. ↴conversion
27 # rate can be increased by setting the single shot bit repetitively after a conversion. ↴has finished.
28 # However, it has to be ensured that the additional power is limited, otherwise self-
29 # heating effects have to be considered.
30 #
31 #-----
32 #
33 # Written by Pete Lewis, SparkFun Electronics, Aug 2021
34 #
35 # Thanks to Alex Wende and Lori Croster @ SparkFun Electronics
36 # for code examples from TMP102 Python Package, May 2021
37 # (https://github.com/sparkfun/Qwiic\_TMP102\_Py)
38 #
39 # Thanks to Brandon Williams. This library was based off his
40 # original library created 07/15/2020 and can be found here:
41 # https://github.com/will2055/AS6212-Arduino-Library/
42 #
43 # Thanks to Madison Chodikov @ SparkFun Electronics
44 # for code examples from TMP117 Arduino Library
```

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```

45 # (https://github.com/sparkfun/SparkFun_TMP117_Arduino_Library)
46 #
47 # This python library supports the SparkFun Electroncis qwiic
48 # qwiic sensor/board ecosystem on a Raspberry Pi (and compatable) single
49 # board computers.
50 #
51 # More information on qwiic is at https://www.sparkfun.com/qwiic
52 #
53 # Do you like this library? Help support SparkFun. Buy a board!
54 #
55 #=====
56 # Copyright (c) 2021 SparkFun Electronics
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58 # Permission is hereby granted, free of charge, to any person obtaining a copy
59 # of this software and associated documentation files (the "Software"), to deal
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72 # LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
73 # OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
74 # SOFTWARE.
75 #=====
76 # Example 2
77 #
78
79 from __future__ import print_function
80 import qwiic_as6212
81 import time
82 import sys
83
84 def runExample():
85
86     print("\nSparkFun Qwiic AS6212 Sensor Example 2 - Single Shot Readings\n")
87     myTempSensor = qwiic_as6212.QwiicAs6212Sensor()
88
89     if myTempSensor.is_connected == False:
90         print("The Qwiic AS6212 Sensor device isn't connected to the system..")
91         print("Please check your connection", \
92             file=sys.stderr)
93         return
94
95     myTempSensor.begin()
96     time.sleep(1)

```

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```
96     print("Initialized.")  
97  
98     myTempSensor.set_sleep_mode(1) # turn sleep mode on (1)  
99     print("Sleep mode ON")  
100    time.sleep(1)  
101  
102    while True:  
103        myTempSensor.trigger_single_shot_conversion() # trigger SS  
104  
105        #wait for conversion to complete (~51ms)  
106        conversionTime = 0  
107        while myTempSensor.get_single_shot_status() == 1:  
108            conversionTime += 1  
109            time.sleep(0.001) # 1ms  
110  
111        tempF = myTempSensor.read_temp_f()  
112  
113        print("Temperature: %.2fF \t Conversion time: %ims" % (tempF,  
114        conversionTime))  
115        time.sleep(1)  
116  
117 if __name__ == '__main__':  
118     try:  
119         runExample()  
120     except (KeyboardInterrupt, SystemExit) as exErr:  
121         print("\nEnding Example 1")  
122         sys.exit(0)
```

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