BB_BME280

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Class Index

1.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

Chapter 2

Class Documentation

2.1 BB_BME280 Class Reference

`#include <BB_BME280.h>`

Public Member Functions

- BB_BME280 (BB_I2C *i2c)
- uint8_t readChipId (void)
- int32_t readTemperature (void)
- uint32_t readPressure (void)
- uint32_t readHumidity (void)
- uint16_t **getCalibT1** (void)
- int16_t **getCalibT2** (void)
- int16_t **getCalibT3** (void)
- uint16_t **getCalibP1** (void)
- int16_t **getCalibP2** (void)
- int16_t **getCalibP3** (void)
- int16_t **getCalibP4** (void)
- int16_t **getCalibP5** (void)
- int16_t **getCalibP6** (void)
- int16_t **getCalibP7** (void)
- int16_t **getCalibP8** (void)
- int16_t **getCalibP9** (void)
- uint16_t **getCalibH1** (void)
- int16_t **getCalibH2** (void)
- uint16_t **getCalibH3** (void)
- int16_t **getCalibH4** (void)
- int16_t **getCalibH5** (void)
- int16_t **getCalibH6** (void)

2.1.1 Detailed Description

Objects of this class represent a BME280

2.1.2 Constructor & Destructor Documentation

2.1.2.1 BB_BME280::BB_BME280 (BB_I2C * *i2c*)

Initializes a BME280 object.

Parameters

i2c	a reference to a I2C object.

2.1.3 Member Function Documentation

2.1.3.1 uint8_t BB_BME280::readChipId (void)

Provides the chip identification number, which is 0x60. This method can be used to check if the sensor is up and running.

Returns

the chip identification number 0x60.

2.1.3.2 uint32_t BB_BME280::readHumidity (void)

Provides the humidity value in % ∗ 1024.

Returns

the humidity value in % ∗ 1024

2.1.3.3 uint32_t BB_BME280::readPressure (void)

Provides the pressure value in hPa ∗ 100.

Returns

the pressure value in hPa ∗ 100

2.1.3.4 int32_t BB_BME280::readTemperature (void)

Provides the temperature value in degC ∗ 100.

Returns

the temperature value in degC ∗ 100

The documentation for this class was generated from the following files:

- BB_BME280.h
- BB_BME280.cpp

2.2 BB_BME280_CALIBRATION Struct Reference

```
#include <BB_BME280.h>
```

Public Attributes

- uint16_t **dig_T1**
- int16_t **dig_T2**
- int16_t **dig_T3**
- uint16_t **dig_P1**
- int16_t **dig_P2**
- int16_t **dig_P3**
- int16_t **dig_P4**
- int16_t **dig_P5**
- int16_t **dig_P6**
- int16_t **dig_P7**
- int16_t **dig_P8**
- int16_t **dig_P9**
- uint8_t **dig_H1**
- int16_t **dig_H2**
- uint8_t **dig_H3**
- int16_t **dig_H4**
- int16_t **dig_H5**
- int8_t **dig_H6**

2.2.1 Detailed Description

Contains the calibration values of the BME280

The documentation for this struct was generated from the following file:

- BB_BME280.h

2.3 BB_BME280_SETTINGS Struct Reference

`#include <BB_BME280.h>`

Public Attributes

- uint8_t **StandbyTime**
- uint8_t **Filter**
- uint8_t **SPI3w_en**
- uint8_t **osrs_t**
- uint8_t **osrs_p**
- uint8_t **MODE**
- uint8_t **osrs_h**

2.3.1 Detailed Description

Contains the all settings for the BME280

The documentation for this struct was generated from the following file:

- BB_BME280.h

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