BB_BME280 0.01.000

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Chapter 1

Class Index

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

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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>

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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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