

Erriez BMP280 / BME280 library for Arduino

1.0.1

Generated by Doxygen 1.8.13



# Contents

<b>1</b>	<b>BMP280/BME280 sensor library for Arduino</b>	<b>1</b>
<b>2</b>	<b>Class Index</b>	<b>5</b>
2.1	Class List . . . . .	5
<b>3</b>	<b>File Index</b>	<b>7</b>
3.1	File List . . . . .	7
<b>4</b>	<b>Class Documentation</b>	<b>9</b>
4.1	ErriezBMX280 Class Reference . . . . .	9
4.1.1	Detailed Description . . . . .	10
4.1.2	Constructor & Destructor Documentation . . . . .	10
4.1.2.1	ErriezBMX280() . . . . .	10
4.1.3	Member Function Documentation . . . . .	10
4.1.3.1	begin() . . . . .	10
4.1.3.2	getChipID() . . . . .	10
4.1.3.3	read16() . . . . .	11
4.1.3.4	read16_LE() . . . . .	11
4.1.3.5	read24() . . . . .	11
4.1.3.6	read8() . . . . .	12
4.1.3.7	readAltitude() . . . . .	12
4.1.3.8	readHumidity() . . . . .	13
4.1.3.9	readPressure() . . . . .	13
4.1.3.10	readS16_LE() . . . . .	13
4.1.3.11	readTemperature() . . . . .	14
4.1.3.12	setSampling() . . . . .	14
4.1.3.13	write8() . . . . .	14

<b>5</b>	<b>File Documentation</b>	<b>17</b>
5.1	src/ErriezBMX280.cpp File Reference . . . . .	17
5.1.1	Detailed Description . . . . .	17
5.2	src/ErriezBMX280.h File Reference . . . . .	18
5.2.1	Detailed Description . . . . .	20
5.2.2	Enumeration Type Documentation . . . . .	20
5.2.2.1	BMX280_Filter_e . . . . .	20
5.2.2.2	BMX280_Mode_e . . . . .	21
5.2.2.3	BMX280_Sampling_e . . . . .	21
5.2.2.4	BMX280_Standby_e . . . . .	22
	<b>Index</b>	<b>23</b>

# Chapter 1

## BMP280/BME280 sensor library for Arduino

This is a BMP280/BME280 temperature/pressure/humidity sensor library for Arduino.

### Arduino library features

- Measurements:
  - BMP280: Temperature / pressure / approximate altitude
  - BME280: Temperature / pressure / approximate altitude / humidity
- Three operation modes:
  - Normal mode: Continues conversion
  - Forced mode: One-time conversion
  - Standby mode: Low-power, no conversion
- Sampling configuration
- Chip detect / read chip ID
- I2C interface only
- Small flash/RAM footprint

### BMP280/BME280 sensor specifications

- Operating voltage: 1.71V .. 3.6V max
- Low current:
  - 1.8 uA @ 1 Hz humidity and temperature
  - 2.8 uA @ 1 Hz pressure and temperature
  - 3.6 uA @ 1 Hz humidity, pressure and temperature
  - 0.1 uA in sleep mode
- Operating range: -40...+85 °C, 0...100 % rel. humidity, 300...1100 hPa
- I2C bus interface: max 3.4 MHz
- No additional electronic components needed

### Hardware

#### Connection Arduino board - BMX280 sensor

Pins board - BMX280	VCC	GND	SDA	SCL
Arduino UNO (ATMega328 boards)	5V	GND	A4	A5
Arduino Mega2560	5V	GND	D20	D21
Arduino Leonardo	5V	GND	D2	D3
Arduino DUE (ATSAM3X8E)	3V3	GND	20	21
ESP8266	3V3	GND	GPIO4 (D2)	GPIO5 (D1)
ESP32	3V3	GND	GPIO21	GPIO22

Other unlisted MCU's may work, but are not tested.

## Examples

Examples | Erriez BMP280/BME280 sensor:

- [ErriezBMX280](#)

## Documentation

- [Doxygen online HTML](#)
- [Doxygen PDF](#)
- [BMP280 chip datasheet](#)
- [BME280 chip datasheet](#)

## Example

```
{c++}
#include <Wire.h>
#include <ErriezBMX280.h>

// Adjust sea level for altitude calculation
#define SEA_LEVEL_PRESSURE_HPA 1026.25

// Create BMX280 object I2C address 0x76 or 0x77
ErriezBMX280 bmx280 = ErriezBMX280(0x76);

void setup()
{
    // Initialize serial
    delay(500);
    Serial.begin(115200);
    while (!Serial) {
        ;
    }
    Serial.println(F("\nErriez BMP280/BMX280 example"));

    // Initialize I2C bus
    Wire.begin();
    Wire.setClock(400000);

    // Initialize sensor
    while (!bmx280.begin()) {
        Serial.println(F("Error: Could not detect sensor"));
        delay(3000);
    }

    // Print sensor type
    Serial.print(F("\nSensor type: "));
    switch (bmx280.getChipID()) {
        case CHIP_ID_BMP280:
```

```

        Serial.println(F("BMP280\n"));
        break;
    case CHIP_ID_BME280:
        Serial.println(F("BME280\n"));
        break;
    default:
        Serial.println(F("Unknown\n"));
        break;
    }
}

void loop()
{
    Serial.print(F("Temperature: "));
    Serial.print(bmx280.readTemperature());
    Serial.println(" C");

    if (bmx280.getChipID() == CHIP_ID_BME280) {
        Serial.print(F("Humidity: "));
        Serial.print(bmx280.readHumidity());
        Serial.println(" %");
    }

    Serial.print(F("Pressure: "));
    Serial.print(bmx280.readPressure() / 100.0F);
    Serial.println(" hPa");

    Serial.print(F("Altitude: "));
    Serial.print(bmx280.readAltitude(SEA_LEVEL_PRESSURE_HPA));
    Serial.println(" m");

    Serial.println();

    delay(1000);
}

```

## Output

```

{c++}
Erriez BMP280/BMX280 example

Sensor type: BME280

Temperature: 28.50 C
Humidity:    45.13 %
Pressure:    1024.88 hPa
Altitude:    11.27 m

Temperature: 28.55 C
Humidity:    45.21 %
Pressure:    1024.89 hPa
Altitude:    11.21 m

...

```

## Set sampling

The sensor sampling and mode can be configured with function `setSampling()`. Recommended modes of operation according to the datasheet chapter "Recommended modes of operation":

```

{c++}
// Set sampling
//
// Weather
// - forced mode, 1 sample / minute
// - pressure x1, temperature x1, humidity x1
// - filter off
//
// Humidity sensing
// - forced mode, 1 sample / second
// - pressure x0, temperature x1, humidity x1
// - filter off
//
// Indoor navigation
// - normal mode, t standby = 0.5 ms
// - pressure x16, temperature x2, humidity x1
// - filter coefficient 16

```

```
//  
// Gaming  
// - forced mode, t standby = 0.5 ms  
// - pressure x1, temperature x1, humidity x1  
// - filter off  
bmx280.setSampling(BMX280_MODE_NORMAL,    // SLEEP, FORCED, NORMAL  
                  BMX280_SAMPLING_X16,    // Temp: NONE, X1, X2, X4, X8, X16  
                  BMX280_SAMPLING_X16,    // Press: NONE, X1, X2, X4, X8, X16  
                  BMX280_SAMPLING_X16,    // Hum:  NONE, X1, X2, X4, X8, X16 (BME280)  
                  BMX280_FILTER_X16,      // OFF, X2, X4, X8, X16  
                  BMX280_STANDBY_MS_500); // 0_5, 10, 20, 62_5, 125, 250, 500, 1000
```

## Library dependencies

- Built-in `Wire.h`

## Library installation

Please refer to the [Wiki](#) page.

## Other Arduino Libraries and Sketches from Erriez

- [Erriez Libraries and Sketches](#)



## Chapter 2

# Class Index

### 2.1 Class List

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

<a href="#">ErriezBMX280</a>	
BMX280 class	9



## Chapter 3

# File Index

### 3.1 File List

Here is a list of all documented files with brief descriptions:

src/ <a href="#">ErriezBMX280.cpp</a>	
BMP280/BME280 sensor library for Arduino . . . . .	17
src/ <a href="#">ErriezBMX280.h</a>	
BMP280/BME280 sensor library for Arduino . . . . .	18



# Chapter 4

## Class Documentation

### 4.1 ErriezBMX280 Class Reference

BMX280 class.

```
#include <ErriezBMX280.h>
```

#### Public Member Functions

- [ErriezBMX280](#) (uint8\_t i2cAddr)  
*Constructor.*
- bool [begin](#) ()  
*Sensor initialization.*
- uint8\_t [getChipID](#) ()  
*Get chip ID.*
- float [readTemperature](#) ()  
*Read temperature.*
- float [readPressure](#) ()  
*Read pressure.*
- float [readAltitude](#) (float seaLevel)  
*Read approximate altitude.*
- float [readHumidity](#) ()  
*Read humidity (BME280 only)*
- void [setSampling](#) (BMX280\_Mode\_e mode=BMX280\_MODE\_NORMAL, BMX280\_Sampling\_e tempSampling=BMX280\_SAMPLING\_X16, BMX280\_Sampling\_e pressSampling=BMX280\_SAMPLING\_X16, BMX280\_Sampling\_e humSampling=BMX280\_SAMPLING\_X16, BMX280\_Filter\_e filter=BMX280\_FILTER\_OFF, BMX280\_Standby\_e standbyDuration=BMX280\_STANDBY\_MS\_0\_5)  
*Set sampling registers.*
- uint8\_t [read8](#) (uint8\_t reg)  
*Read from 8-bit register.*
- uint16\_t [read16](#) (uint8\_t reg)  
*Read from 16-bit register.*
- uint16\_t [read16\\_LE](#) (uint8\_t reg)  
*Read from 16-bit unsigned register little endian.*
- int16\_t [readS16\\_LE](#) (uint8\_t reg)  
*Read from 16-bit signed register little endian.*
- uint32\_t [read24](#) (uint8\_t reg)  
*Read from 24-bit register.*
- void [write8](#) (uint8\_t reg, uint8\_t value)  
*Write to 8-bit register.*

### 4.1.1 Detailed Description

BMX280 class.

Definition at line 134 of file ErriezBMX280.h.

### 4.1.2 Constructor & Destructor Documentation

#### 4.1.2.1 ErriezBMX280()

```
ErriezBMX280::ErriezBMX280 (
    uint8_t i2cAddr )
```

Constructor.

Parameters

<i>i2cAddr</i>	I2C address
----------------	-------------

Definition at line 43 of file ErriezBMX280.cpp.

### 4.1.3 Member Function Documentation

#### 4.1.3.1 begin()

```
bool ErriezBMX280::begin ( )
```

Sensor initialization.

Return values

<i>true</i>	BMP280 or BME280 sensor detected
<i>false</i>	Error: No (supported) sensor detected

Definition at line 55 of file ErriezBMX280.cpp.

#### 4.1.3.2 getChipID()

```
uint8_t ErriezBMX280::getChipID ( )
```

Get chip ID.

**Returns**

Chip ID as read with [begin\(\)](#)

Definition at line 93 of file ErriezBMX280.cpp.

**4.1.3.3 read16()**

```
uint16_t ErriezBMX280::read16 (
    uint8_t reg )
```

Read from 16-bit register.

**Parameters**

<i>reg</i>	Register address
------------	------------------

**Returns**

16-bit register value

Definition at line 357 of file ErriezBMX280.cpp.

**4.1.3.4 read16\_LE()**

```
uint16_t ErriezBMX280::read16_LE (
    uint8_t reg )
```

Read from 16-bit unsigned register little endian.

**Parameters**

<i>reg</i>	Register address
------------	------------------

**Returns**

16-bit unsigned register value in little endian

Definition at line 329 of file ErriezBMX280.cpp.

**4.1.3.5 read24()**

```
uint32_t ErriezBMX280::read24 (
    uint8_t reg )
```

Read from 24-bit register.

**Parameters**

<i>reg</i>	Register address
------------	------------------

**Returns**

24-bit register value

Definition at line 375 of file ErriezBMX280.cpp.

**4.1.3.6 read8()**

```
uint8_t ErriezBMX280::read8 (
    uint8_t reg )
```

Read from 8-bit register.

**Parameters**

<i>reg</i>	Register address
------------	------------------

**Returns**

8-bit register value

Definition at line 296 of file ErriezBMX280.cpp.

**4.1.3.7 readAltitude()**

```
float ErriezBMX280::readAltitude (
    float seaLevel )
```

Read approximate altitude.

**Parameters**

<i>seaLevel</i>	Sea level in hPa
-----------------	------------------

**Returns**

Altitude (float)

Definition at line 174 of file ErriezBMX280.cpp.



#### 4.1.3.8 readHumidity()

```
float ErriezBMX280::readHumidity ( )
```

Read humidity (BME280 only)

##### Returns

Humidity (float)

Definition at line 187 of file ErriezBMX280.cpp.

#### 4.1.3.9 readPressure()

```
float ErriezBMX280::readPressure ( )
```

Read pressure.

##### Returns

Pressure (float)

Definition at line 132 of file ErriezBMX280.cpp.

#### 4.1.3.10 readS16\_LE()

```
int16_t ErriezBMX280::readS16_LE (
    uint8_t reg )
```

Read from 16-bit signed register little endian.

##### Parameters

<i>reg</i>	Register address
------------	------------------

##### Returns

16-bit signed register value in little endian

Definition at line 345 of file ErriezBMX280.cpp.

#### 4.1.3.11 readTemperature()

```
float ErriezBMX280::readTemperature ( )
```

Read temperature.

##### Returns

Temperature (float)

Definition at line 104 of file ErriezBMX280.cpp.

#### 4.1.3.12 setSampling()

```
void ErriezBMX280::setSampling (
    BMX280_Mode_e mode = BMX280_MODE_NORMAL,
    BMX280_Sampling_e tempSampling = BMX280_SAMPLING_X16,
    BMX280_Sampling_e pressSampling = BMX280_SAMPLING_X16,
    BMX280_Sampling_e humSampling = BMX280_SAMPLING_X16,
    BMX280_Filter_e filter = BMX280_FILTER_OFF,
    BMX280_Standby_e standbyDuration = BMX280_STANDBY_MS_0_5 )
```

Set sampling registers.

##### Parameters

<i>mode</i>	See BMX280_Mode_e
<i>tempSampling</i>	See BMX280_Sampling_e
<i>pressSampling</i>	See BMX280_Sampling_e
<i>humSampling</i>	See BMX280_Sampling_e
<i>filter</i>	See BMX280_Filter_e
<i>standbyDuration</i>	See BMX280_Standby_e

Definition at line 269 of file ErriezBMX280.cpp.

#### 4.1.3.13 write8()

```
void ErriezBMX280::write8 (
    uint8_t reg,
    uint8_t value )
```

Write to 8-bit register.

## Parameters

<i>reg</i>	Register address
<i>value</i>	8-bit register value

Definition at line 314 of file ErriezBMX280.cpp.

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

- [src/ErriezBMX280.h](#)
- [src/ErriezBMX280.cpp](#)



## Chapter 5

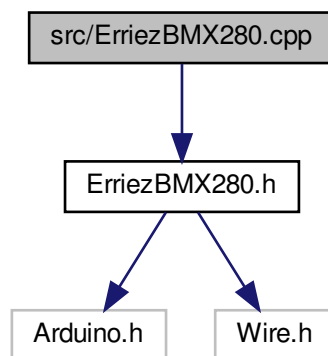
# File Documentation

### 5.1 src/ErriezBMX280.cpp File Reference

BMP280/BME280 sensor library for Arduino.

```
#include "ErriezBMX280.h"
```

Include dependency graph for ErriezBMX280.cpp:



#### 5.1.1 Detailed Description

BMP280/BME280 sensor library for Arduino.

BMP280 supports temperature and pressure BME280 supports temperature, pressure and humidity

Source: <https://github.com/Erriez/ErriezBMX280>  
Documentation: <https://erriez.github.io/ErriezBMX280>

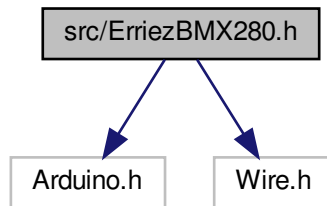
## 5.2 src/ErriezBMX280.h File Reference

BMP280/BME280 sensor library for Arduino.

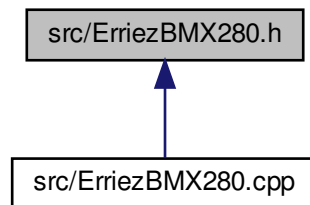
```
#include <Arduino.h>
```

```
#include <Wire.h>
```

Include dependency graph for ErriezBMX280.h:



This graph shows which files directly or indirectly include this file:



### Classes

- class [ErriezBMX280](#)  
*BMX280 class.*

### Macros

- #define [BMX280\\_I2C\\_ADDR](#) 0x76  
*I2C address.*
- #define [BMX280\\_I2C\\_ADDR\\_ALT](#) 0x77  
*I2C alternative address.*
- #define [BMX280\\_REG\\_DIG\\_T1](#) 0x88  
*Temperature coefficient register.*

- #define [BMX280\\_REG\\_DIG\\_T2](#) 0x8A  
*Temperature coefficient register.*
- #define [BMX280\\_REG\\_DIG\\_T3](#) 0x8C  
*Temperature coefficient register.*
- #define [BMX280\\_REG\\_DIG\\_P1](#) 0x8E  
*Pressure coefficient register.*
- #define [BMX280\\_REG\\_DIG\\_P2](#) 0x90  
*Pressure coefficient register.*
- #define [BMX280\\_REG\\_DIG\\_P3](#) 0x92  
*Pressure coefficient register.*
- #define [BMX280\\_REG\\_DIG\\_P4](#) 0x94  
*Pressure coefficient register.*
- #define [BMX280\\_REG\\_DIG\\_P5](#) 0x96  
*Pressure coefficient register.*
- #define [BMX280\\_REG\\_DIG\\_P6](#) 0x98  
*Pressure coefficient register.*
- #define [BMX280\\_REG\\_DIG\\_P7](#) 0x9A  
*Pressure coefficient register.*
- #define [BMX280\\_REG\\_DIG\\_P8](#) 0x9C  
*Pressure coefficient register.*
- #define [BMX280\\_REG\\_DIG\\_P9](#) 0x9E  
*Pressure coefficient register.*
- #define [BME280\\_REG\\_DIG\\_H1](#) 0xA1  
*Humidity coefficient register.*
- #define [BME280\\_REG\\_DIG\\_H2](#) 0xE1  
*Humidity coefficient register.*
- #define [BME280\\_REG\\_DIG\\_H3](#) 0xE3  
*Humidity coefficient register.*
- #define [BME280\\_REG\\_DIG\\_H4](#) 0xE4  
*Humidity coefficient register.*
- #define [BME280\\_REG\\_DIG\\_H5](#) 0xE5  
*Humidity coefficient register.*
- #define [BME280\\_REG\\_DIG\\_H6](#) 0xE7  
*Humidity coefficient register.*
- #define [BME280\\_REG\\_CHIPID](#) 0xD0  
*Chip ID register.*
- #define [BME280\\_REG\\_RESET](#) 0xE0  
*Reset register.*
- #define [BME280\\_REG\\_CTRL\\_HUM](#) 0xF2  
*BME280: Control humidity register.*
- #define [BMX280\\_REG\\_STATUS](#) 0xF3  
*Status register.*
- #define [BMX280\\_REG\\_CTRL\\_MEAS](#) 0xF4  
*Control measure register.*
- #define [BMX280\\_REG\\_CONFIG](#) 0xF5  
*Config register.*
- #define [BMX280\\_REG\\_PRESS](#) 0xF7  
*Pressure data register.*
- #define [BMX280\\_REG\\_TEMP](#) 0xFA  
*Temperature data register.*
- #define [BME280\\_REG\\_HUM](#) 0xFD

- *Humidity data register.*
- `#define CHIP_ID_BMP280 0x58`  
*BMP280 chip ID.*
- `#define CHIP_ID_BME280 0x60`  
*BME280 chip ID.*
- `#define RESET_KEY 0xB6`  
*Reset value for reset register.*
- `#define STATUS_IM_UPDATE 0`  
*im\_update bit in status register*

## Enumerations

- `enum BMX280_Mode_e { BMX280_MODE_SLEEP = 0b00, BMX280_MODE_FORCED = 0b01, BMX280_↵  
_MODE_NORMAL = 0b11 }`  
*Sleep mode bits ctrl\_meas register.*
- `enum BMX280_Sampling_e {  
BMX280_SAMPLING_NONE = 0b000, BMX280_SAMPLING_X1 = 0b001, BMX280_SAMPLING_X2 =  
0b010, BMX280_SAMPLING_X4 = 0b011,  
BMX280_SAMPLING_X8 = 0b100, BMX280_SAMPLING_X16 = 0b101 }`  
*Sampling bits registers ctrl\_hum, ctrl\_meas.*
- `enum BMX280_Filter_e {  
BMX280_FILTER_OFF = 0b000, BMX280_FILTER_X2 = 0b001, BMX280_FILTER_X4 = 0b010, BMX280_↵  
_FILTER_X8 = 0b011,  
BMX280_FILTER_X16 = 0b100 }`  
*Filter bits config register.*
- `enum BMX280_Standby_e {  
BMX280_STANDBY_MS_0_5 = 0b000, BMX280_STANDBY_MS_10 = 0b110, BMX280_STANDBY_MS_20  
= 0b111, BMX280_STANDBY_MS_62_5 = 0b001,  
BMX280_STANDBY_MS_125 = 0b010, BMX280_STANDBY_MS_250 = 0b011, BMX280_STANDBY_MS_↵  
_500 = 0b100, BMX280_STANDBY_MS_1000 = 0b101 }`  
*Standby duration bits config register.*

### 5.2.1 Detailed Description

BMP280/BME280 sensor library for Arduino.

BMP280 supports temperature and pressure BME280 supports temperature, pressure and humidity

Source: <https://github.com/Erriez/ErriezBMX280>  
Documentation: <https://erriez.github.io/ErriezBMX280>

### 5.2.2 Enumeration Type Documentation

#### 5.2.2.1 BMX280\_Filter\_e

`enum BMX280_Filter_e`

Filter bits config register.



**Enumerator**

BMX280_FILTER_OFF	Filter off.
BMX280_FILTER_X2	x2 Filter
BMX280_FILTER_X4	x4 Filter
BMX280_FILTER_X8	x8 Filter
BMX280_FILTER_X16	x16 Filter

Definition at line 109 of file ErriezBMX280.h.

**5.2.2.2 BMX280\_Mode\_e**

enum [BMX280\\_Mode\\_e](#)

Sleep mode bits ctrl\_meas register.

**Enumerator**

BMX280_MODE_SLEEP	Sleep mode.
BMX280_MODE_FORCED	Forced mode.
BMX280_MODE_NORMAL	Normal mode.

Definition at line 88 of file ErriezBMX280.h.

**5.2.2.3 BMX280\_Sampling\_e**

enum [BMX280\\_Sampling\\_e](#)

Sampling bits registers ctrl\_hum, ctrl\_meas.

**Enumerator**

BMX280_SAMPLING_NONE	Sampling disabled.
BMX280_SAMPLING_X1	x1 Sampling
BMX280_SAMPLING_X2	x2 Sampling
BMX280_SAMPLING_X4	x4 Sampling
BMX280_SAMPLING_X8	x8 Sampling
BMX280_SAMPLING_X16	x16 Sampling

Definition at line 97 of file ErriezBMX280.h.

#### 5.2.2.4 BMX280\_Standby\_e

enum `BMX280_Standby_e`

Standby duration bits config register.

##### Enumerator

<code>BMX280_STANDBY_MS_0_5</code>	0.5m standby
<code>BMX280_STANDBY_MS_10</code>	10ms standby
<code>BMX280_STANDBY_MS_20</code>	20ms standby
<code>BMX280_STANDBY_MS_62↔ _5</code>	62.5 standby
<code>BMX280_STANDBY_MS_125</code>	125ms standby
<code>BMX280_STANDBY_MS_250</code>	250ms standby
<code>BMX280_STANDBY_MS_500</code>	500ms standby
<code>BMX280_STANDBY_MS_1000</code>	1s standby

Definition at line 120 of file `ErriezBMX280.h`.

# Index

- BMX280\_Filter\_e
  - ErriezBMX280.h, [20](#)
- BMX280\_Mode\_e
  - ErriezBMX280.h, [21](#)
- BMX280\_Sampling\_e
  - ErriezBMX280.h, [21](#)
- BMX280\_Standby\_e
  - ErriezBMX280.h, [21](#)
- begin
  - ErriezBMX280, [10](#)
- ErriezBMX280, [9](#)
  - begin, [10](#)
  - ErriezBMX280, [10](#)
  - getChipID, [10](#)
  - read16, [11](#)
  - read16\_LE, [11](#)
  - read24, [11](#)
  - read8, [12](#)
  - readAltitude, [12](#)
  - readHumidity, [12](#)
  - readPressure, [13](#)
  - readS16\_LE, [13](#)
  - readTemperature, [13](#)
  - setSampling, [14](#)
  - write8, [14](#)
- ErriezBMX280.h
  - BMX280\_Filter\_e, [20](#)
  - BMX280\_Mode\_e, [21](#)
  - BMX280\_Sampling\_e, [21](#)
  - BMX280\_Standby\_e, [21](#)
- getChipID
  - ErriezBMX280, [10](#)
- read16
  - ErriezBMX280, [11](#)
- read16\_LE
  - ErriezBMX280, [11](#)
- read24
  - ErriezBMX280, [11](#)
- read8
  - ErriezBMX280, [12](#)
- readAltitude
  - ErriezBMX280, [12](#)
- readHumidity
  - ErriezBMX280, [12](#)
- readPressure
  - ErriezBMX280, [13](#)
- readS16\_LE
  - ErriezBMX280, [13](#)
- ErriezBMX280, [13](#)
  - readTemperature
- ErriezBMX280, [13](#)
  - setSampling
- ErriezBMX280, [14](#)
  - src/ErriezBMX280.cpp, [17](#)
  - src/ErriezBMX280.h, [18](#)
- write8
  - ErriezBMX280, [14](#)