Thermometer_430

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Chapter 1

temp430

<#details#>

Developed with `embedXcode`

Author

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Date

12/12/12 14:16

Version

<#version#>

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See Also

ReadMe.txt for references

Chapter 2

Class Index

2.1 Class List

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

Thermometer_430
Thermometer_430 class 7

Chapter 3

File Index

3.1 File List

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

temp430.ino
Main sketch 9
Thermometer_430.h
Library header 10

Chapter 4

Class Documentation

4.1 Thermometer_430 Class Reference

Thermometer_430 class.

`#include <Thermometer_430.h>`

Public Member Functions

- Thermometer_430 ()

  Constructor.
- void begin ()

  Initialisation.
- void get ()

  Read a new measure.
- int32_t temperatureX10 ()

  Temperature based on moving average.

4.1.1 Detailed Description

Thermometer_430 class.

4.1.2 Member Function Documentation

4.1.2.1 void Thermometer_430::begin ( )

Initialisation.

Erase and perform measures NUMBER times to initialise moving average

4.1.2.2 int32_t Thermometer_430::temperatureX10 ( )

Temperature based on moving average.

Returns

return temperature x 10 to avoid float

```
Serial.print(temperatureX10()/10, DEC); // integer part
Serial.print(".");                      // decimal separator
Serial.print(temperatureX10()%10, DEC); // decimal part
```

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

- Thermometer_430.h
- Thermometer_430.cpp

Chapter 5

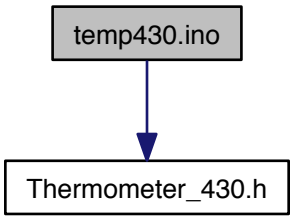
File Documentation

5.1 temp430.ino File Reference

Main sketch.

```
#include "Thermometer_430.h"
```

Include dependency graph for temp430.ino:



Functions

- void **setup** ()
- void **loop** ()

Variables

- Thermometer_430 **myThermometer**

5.1.1 Detailed Description

Main sketch. <#details#>

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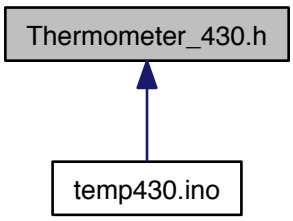
5.2 Thermometer_430.h File Reference

Library header.

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



Classes

- class Thermometer_430

  Thermometer_430 class.

Macros

- #define NUMBER 8

  Number of measures for moving average.

5.2.1 Detailed Description

Library header. MSP430 internal thermometer library

Developed with embedXcode

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See Also

5.2.2 Macro Definition Documentation

5.2.2.1 #define NUMBER 8

Number of measures for moving average.

Note

Take number / 2

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