

Temperature Fan

0.1

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Chapter 1

Data Structure Index

1.1 Data Structures

Here are the data structures with brief descriptions:

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Chapter 2

File Index

2.1 File List

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

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Chapter 3

Data Structure Documentation

3.1 DHT_DataTypedef Struct Reference

DHT Data Struct.

```
#include <DHT.h>
```

Data Fields

- float **Temperature**
- float **Humidity**

3.1.1 Detailed Description

DHT Data Struct.

The data from the DHT11 is stored in a struct of this type so it is easily accessible in main

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

- C:/Users/Charlie/Documents/Uni/Yr2/Embedded Systems/Week 1/MDK/Boards/ST/STM32F746G_↔
Discovery/TemperatureFan/DHT.h

Chapter 4

File Documentation

4.1 C:/Users/Charlie/Documents/Uni/Yr2/Embedded Systems/Week 1/MDK/Boards/ST/STM32F746G_Discovery/TemperatureFan/DHT.h File Reference

File containing DHT data struct.

Data Structures

- struct [DHT_DataTypeDef](#)
DHT Data Struct.

Functions

- void [DHT_GetData](#) ([DHT_DataTypeDef](#) *DHT_Data)
DHT Get Data Function.

4.1.1 Detailed Description

File containing DHT data struct.

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Date

15-05-2024

4.1.2 Function Documentation

4.1.2.1 DHT_GetData()

```
void DHT_GetData (
    DHT_DataTypeDef * DHT_Data )
```

DHT Get Data Function.

This invokes the process to get data from the DHT11. It stores the data in the DHT struct passed by reference

4.2 DHT.h

[Go to the documentation of this file.](#)

```
00001
00009 #ifndef DHT_H_
00010 #define DHT_H_
00011
00012
00013
00019 typedef struct
00020 {
00021     float Temperature;
00022     float Humidity;
00023 }DHT_DataTypeDef;
00024
00030 void DHT_GetData (DHT_DataTypeDef *DHT_Data);
00031
00032 #endif
```

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