

function.c File Reference

```
#include "stdio.h"
#include <math.h>
#include "Const.h"
#include "i2c.h"
#include "function.h"
```

Macros

```
#define AdressBMP 0xee
#define RegisterResetMPU 0x6b
#define RegisterResetBMP 0xe0
#define RegisterCLKSEL 0x6b
#define ValueResetMPU 0x80
#define ValueResetBMP 0xb6
#define ValueCLKSEL 0x02
```

Functions

```
void InitCapteur (I2C_HandleTypeDef *i2cHandle)
void Measure_T (I2C_HandleTypeDef *i2cHandle, double *Temp)
void Measure_AX (I2C_HandleTypeDef *i2cHandle, double *AccelX)
void Measure_AY (I2C_HandleTypeDef *i2cHandle, double *AccelY)
void Measure_AZ (I2C_HandleTypeDef *i2cHandle, double *AccelZ)
```

Variables

```
uint8_t data [48]
```

Macro Definition Documentation

◆ AdressBMP

```
#define AdressBMP 0xee
```

< Definition des adresses des registres

◆ RegisterCLKSEL

```
#define RegisterCLKSEL 0x6b
```

◆ RegisterResetBMP

```
#define RegisterResetBMP 0xe0
```

◆ RegisterResetMPU

```
#define RegisterResetMPU 0x6b
```

◆ ValueCLKSEL

```
#define ValueCLKSEL 0x02
```

◆ ValueResetBMP

```
#define ValueResetBMP 0xb6
```

◆ ValueResetMPU

```
#define ValueResetMPU 0x80
```

Function Documentation

◆ InitCapteur()

```
void InitCapteur ( I2C_HandleTypeDef * i2cHandle )
```

< MPU Reset

< BMP Reset

< Choix de l'horloge

◆ Measure_AX()

```
void Measure_AX ( I2C_HandleTypeDef * i2cHandle,  
                 double *           AccelX  
                 )
```

◆ Measure_AY()

```
void Measure_AY ( I2C_HandleTypeDef * i2cHandle,  
                 double *           AccelY  
                 )
```

◆ Measure_AZ()

```
void Measure_AZ ( I2C_HandleTypeDef * i2cHandle,  
                 double *           AccelZ  
                 )
```

◆ Measure_T()

```
void Measure_T ( I2C_HandleTypeDef * i2cHandle,  
                double *           Temp  
                )
```

Variable Documentation

◆ data

uint8_t data[48]