

Klasse kompass.cpp zum Auslesen der Daten des Kompassmoduls (benutzt i2c.cpp) :

```
#include "kompass.h"
#include "i2c.h"
#include <avr/interrupt.h>

i2c twi;

void kompass::lies_winkel()
{
    twi.start();    //start
    twi.write(192); //moduladresse (default 0xc0)
    twi.write(1);   //register 1 bitte (winkel 0..255)
    twi.start();
    twi.write(193); //read-modus
    winkel = twi.read_end();
    twi.stop();
}

void kompass::lies_acc()
{
    twi.start();    //start
    twi.write(192); //moduladresse (default 0xc0)
    twi.write(14);  //register 4 bitte (winkel 0..255)
    twi.start();
    twi.write(193); //read-modus
    acc_h = twi.read_end();
    twi.stop();

    twi.start();    //start
    twi.write(192); //moduladresse (default 0xc0)
    twi.write(15);  //register 4 bitte (winkel 0..255)
    twi.start();
    twi.write(193); //read-modus
    acc_l = twi.read_end();
    twi.stop();
}

void kompass::lies_gyro()
{
    twi.start();    //start
```

```

twi.write(192);    //moduladresse (default 0xc0)
twi.write(22);    //register 4 bitte (winkel 0..255)
twi.start();
twi.write(193);    //read-modus
gyro_h = twi.read_end();
twi.stop();

twi.start();      //start
twi.write(192);    //moduladresse (default 0xc0)
twi.write(23);    //register 4 bitte (winkel 0..255)
twi.start();
twi.write(193);    //read-modus
gyro_l = twi.read_end();
twi.stop();
}

```

Definitionsdatei der Klasse kompass.cpp :

```

class kompass
{
public:

    unsigned char winkel,nick,roll,acc_h,acc_l,gyro_h, gyro_l;

    void lies_winkel();
    void lies_gyro();
    void lies_acc();

};

```