```
//========================================================================
// FILENAME  : I2Chandle.c
// CREATED   : 14/10/2012
// AUTHOR    : Johnny Kristensen
// DESCR.    : C-fil til I2Chandle.h
//
//------------------------------------------------------------------------
//
// REV.  DATE/AUTHOR    CHANGE DESCRIPTION
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//========================================================================

#include "I2Chandle.h"
#include "komnavn.h"
#include "valve.h"


uint8 I2C_handle( uint8* WriteBuffer, uint8 *ReadBuffer, uint8 BufferSize, uint8 dist ){
        uint8 state = 0;
        uint8 read = 0;
        if(I2C_1_SlaveStatus() & 0x10u){
            read = WriteBuffer[1];
            I2C_1_SlaveClearWriteBuf(); //Writebufferen skal måske geninitialiseres
            I2C_1_SlaveInitWriteBuf(WriteBuffer, BufferSize) ;
            LCD_Position(0u, 0u);
            LCD_PrintString("M:");
            LCD_Position(1u, 0u);
            LCD_PrintNumber(read);
        }
        //For testing:
        dist = 23;
        state = I2C_decode(read);
        ReadBuffer[1] = dist;

        if(I2C_1_SlaveStatus() & 0x01u){
            I2C_1_SlaveClearReadBuf();  //Readbufferen skal måske geninitialiseres
            I2C_1_SlaveInitReadBuf(ReadBuffer, BufferSize);
            LCD_Position(0u, 4u);
            LCD_PrintString("S:");
            LCD_Position(1u, 4u);
            LCD_PrintNumber(dist);
        }
        return state;
}

uint8 I2C_decode(uint8 Rd){
    uint8 state = 0;
    switch(Rd){
        case VBTENIVEAU:
            state = 0;  //Send kun VBTE niveau
            break;
        case TOPVENTIL: //Vand skal ind
            state = 1;
            break;
        case BUNDVENTIL: //Vand skal ud
            state = 2;
            break;
```

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        case LUKVENTIL: //Begge ventiler lukket
            state = 3;
            break;
        default: //ukendt data modtaget. Luk begge ventiler
            state = 3;
            break;
    }
    return state;
}
/* [] END OF FILE */
```