

```
1 #include <reg51.h>
2 #include "lcd.h"
3 #include <intrins.h>
4 #define uchar unsigned char
5 #define uint unsigned int
6 #define ulong unsigned long
7 #define NACK 0
8 #define ACK 1
9 #define MEASURE_TEMP 0x03 //000 0001 1
10 #define MEASURE_HUMI 0x05 //000 0010 1
11 #define STATUS_REG_W 0x06 //000 0011 0
12 #define STATUS_REG_R 0x07 //000 0011 1
13 #define RESET 0x1E //000 1111 0
14
15 ulong volt;//测量的电压值
16 sbit Data=P2^3; //定义数据线
17 sbit CLK=P3^3;//定义时钟信号口
18 sbit DIN=P3^1;//定义2543数据写入口
19 sbit DOUT=P3^0;//定义2543数据读取口
20 sbit CS=P3^2;//定义2543片选信号口
21
22 sbit Data_P = P2^4; // SHT11传感器的数据管脚
23 sbit Sck_P = P2^3; // SHT11传感器的时钟管脚
24 sbit BEEP =P2^5;
25
26 uchar tmpe,h;
27 uchar rec_dat[9]; //用于显示的接收数据数组
28 uchar temp_max = 30;
29 uchar humi_min = 60;
30 ulong C2_max = 3500000;
31 ulong LUX_max = 3500000;
32 ulong C2_now = 0;
33 ulong LUX_now = 0;
34 unsigned char temp; // 保存温度
35 unsigned char humi; // 保存湿度
36
37 enum { TEMP,HUMI };
38 typedef union //定义共用同类型
39 {
40     unsigned int i;
41     float f;
42 }value;
43
44 int display = 0;
45 void delay(uchar ms)
46 { // 延时子程序
47     uchar i;
48     while(ms--)
```

