

## Sensor Instruction

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## 1. Functions of LED sensor

### 1.1 Brief introduction

Temperature/Humidity Sensor can measure environmental temperature and humidity automatically, while brightness sensor will adjust LED display screen's brightness degree. Bright light in the day while dim light in the evening.

Pictures of temperature/humidity and brightness sensor as shown in image 1-1, image 1-2 and image 1-3 in below:

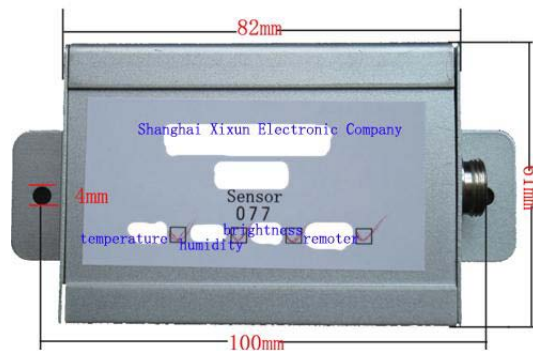


Image 1-1



Image 1-2



Image 1-3

## **2. Main parameters and functions of each part**

### **2.1 Main component**

Infrared receiver, temperature/humidity/brightness induction and flat cables socket connecting with display screen.

### **2.2 Main parameters**

Precision humidity:  $\pm 4.5(\%RH)$ ;

Humidity range: 0-100(%RH)

Precision temperature:  $\pm 0.5^{\circ}C$

Temperature range:  $-55^{\circ}C$ - $+125^{\circ}C$

### **2.3 Functions of main components**

**2.3.1 Power:** judging that whether the sensor is in normal working status.

**2.3.2 Infrared Receiver:** receiving instructions from infrared remote control so as to selecting programs.

**2.3.3 Temperature/Humidity sensor:** sensing environmental temperature and humidity then displaying them on LED display screen.

**2.3.4 Brightness sensor:** sensing environmental brightness then adjusting screen's brightness automatically.

### 3. Make temperature/humidity programs & application method of sensor

#### 3.1 Steps of making temperature/humidity programs as follows:

Step 1: start Led Editor Software and make new program page, as shown in image 1-4 in below:

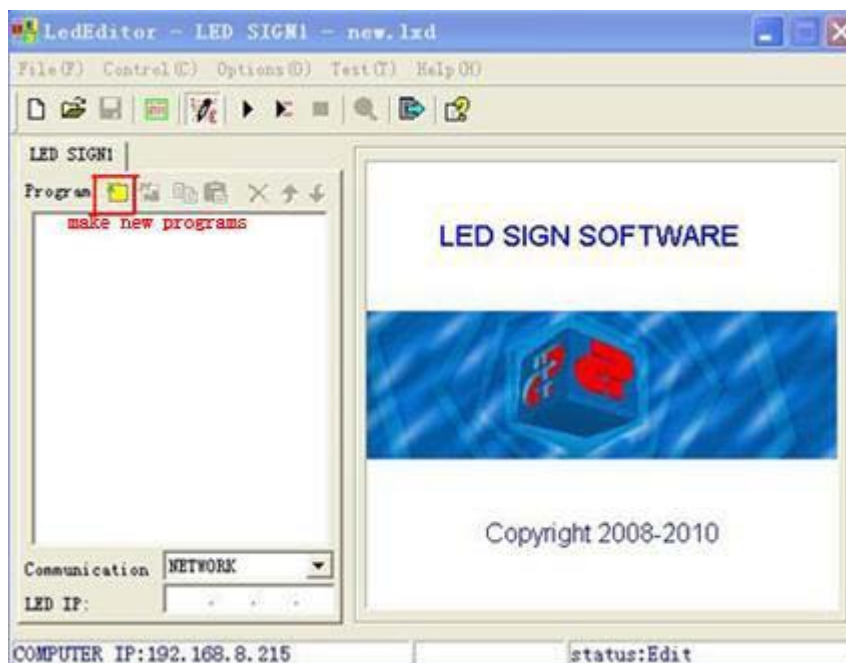


Image 1-4

Step 2: Interface of making temperature/humidity program window, as shown in image 1-5 in below:

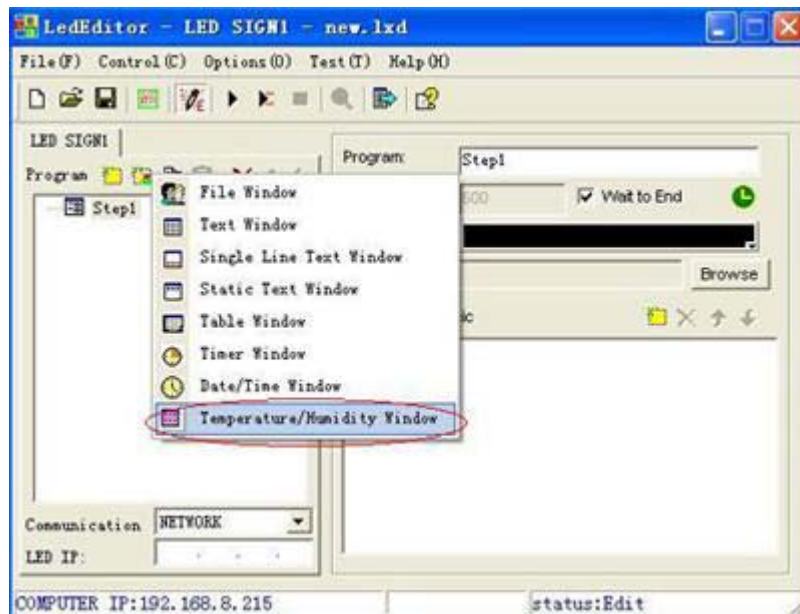


Image 1-5

Step 3: Temperature/humidity program setup and some relative parameters, as shown in image 1-6 in below:

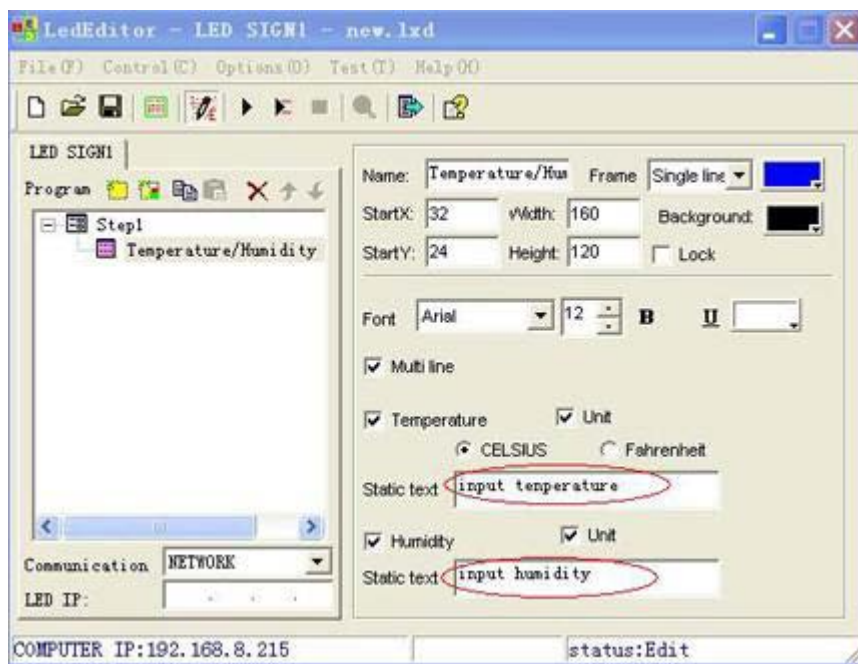


Image 1-6

Step 4: please click on “Send” button, and then the LED display screen will show the current temperature and humidity.

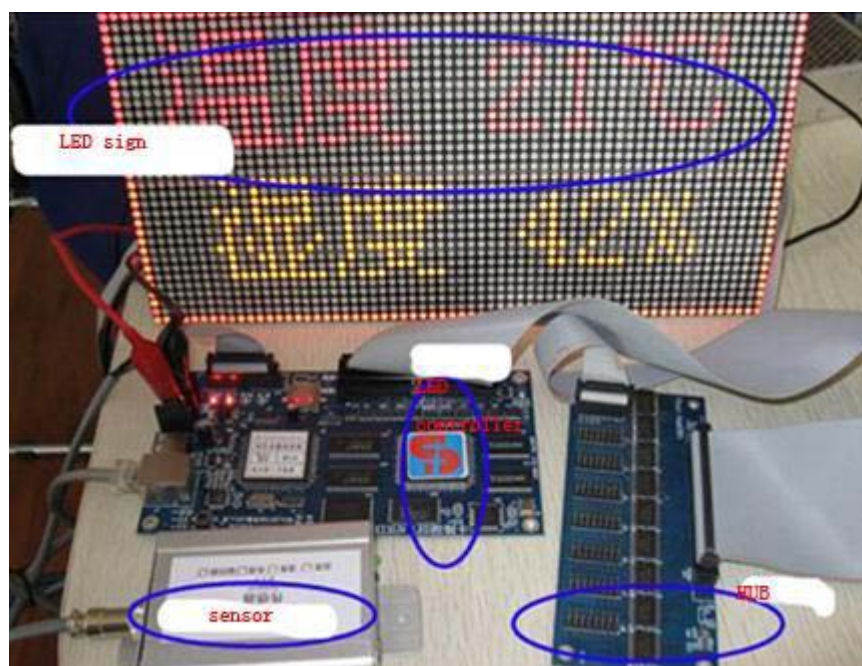
## 3.2 Guide of Sensor

Connection diagram of connecting the sensor with the control card, as shown in image 1-7 in below:



Image 1-7

3.3 Working fundamentals of sensor, as shown in image 1-8 in below:



#### 4. Method of adjusting brightness automatically by Brightness sensor

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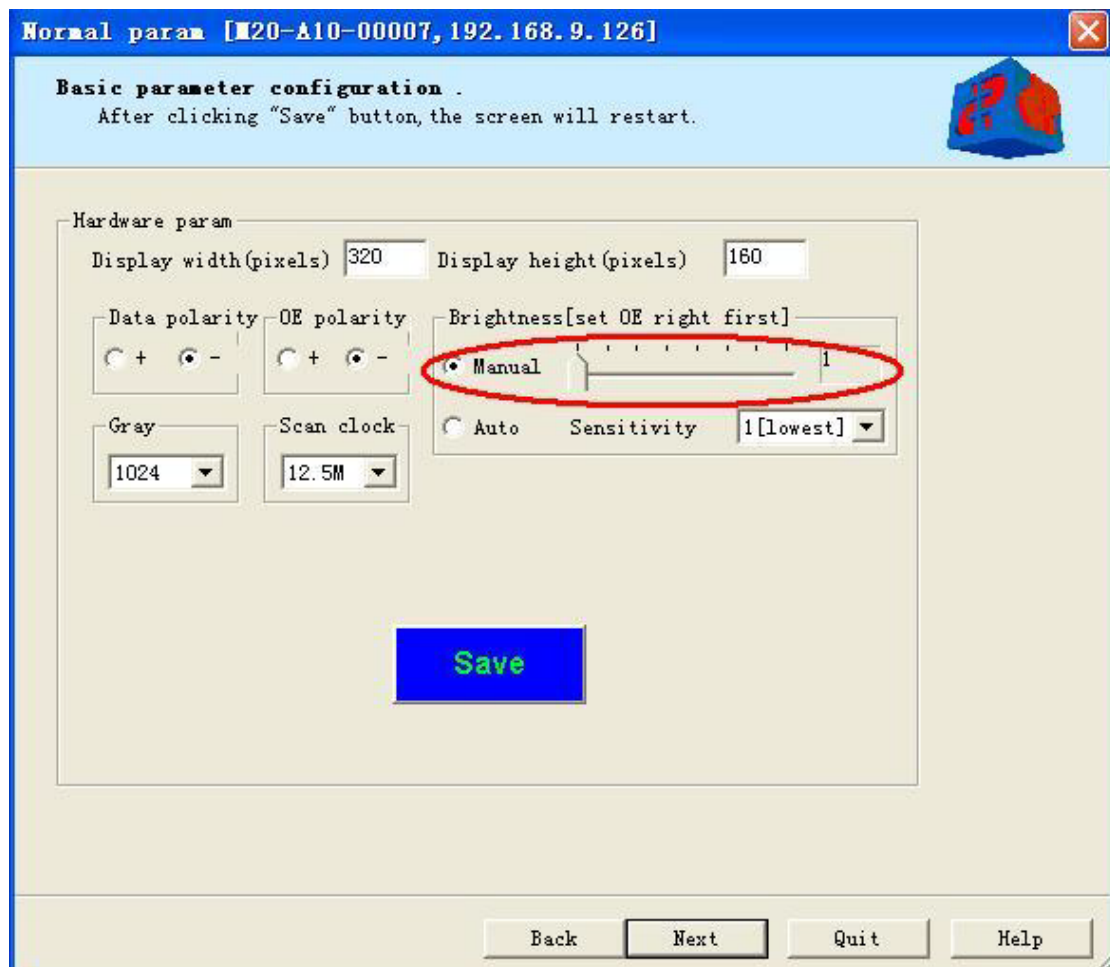


Image1-10