



## R30 sensor Instructions

Version1.0 2014.11.18

### 1. Picture





R30 has following functions:

- ① Run light: showing whether sensor is working normally. Run light should be flashing;
- ② Infrared: accept the commands from remote, could exchange program, adjust volume;
- ③ Temperature: for measuring external environment temperature and show on led screen;
- ④ Moisture: for measuring external environment humidity and show on led screen;
- ⑤ Brightness: for measuring external environment brightness and then adjust the led screen brightness automatically; normally Led screen brightness will be high in the daytime and dim in the evening;
- ⑥ Can connect the R30 with led control card via 20pin cable or can connect the R20 with led control card directly, please check the connections pictures for reference;
- ⑦ 1 meter wire for brightness sensor  
1.5meter wire for temperature sensor  
1.1meter wire for humidity sensor  
0.5 meter wire for infrared sensor  
These wires could be modified according to customer requests;
- ⑧ 2 meters for 20pin cable;
- ⑨ Power switch for led screen and for fan could control the direct current and alternating current; Rated AC voltage is 250V, rated current is 10A;
- ⑩ R30 can work with all types of Xixun led control card;



- ⑪ Customer could select sensor type according to own requests, like only temperature, only humidity or only brightness and so on;
- ⑫ R30 can be installed in outdoor, it has been covered by conformal coating;
- ⑬ R30 doesn't need separate power supplier;

[www.ledxixun.com](http://www.ledxixun.com)

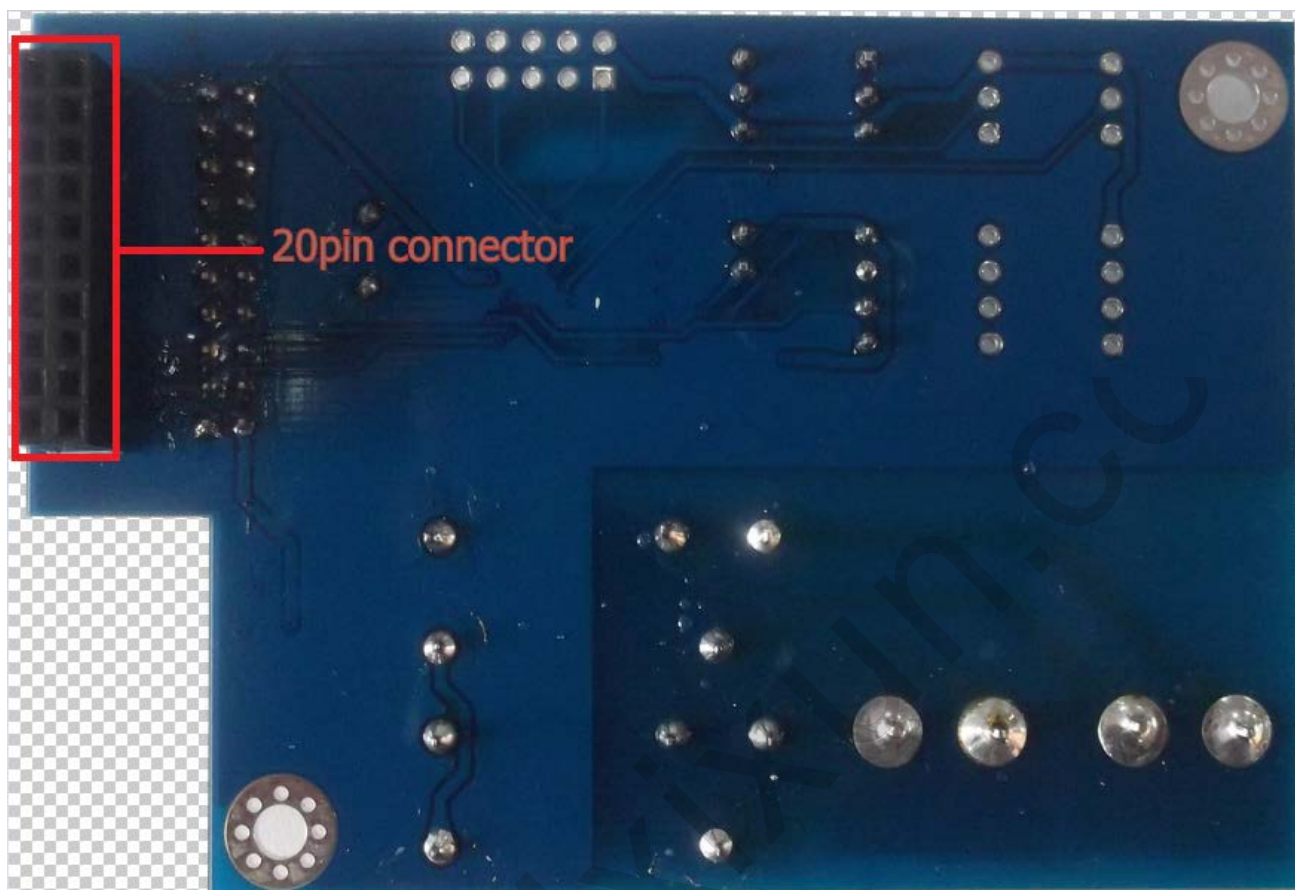


## 2. Front view, back view and PCB size

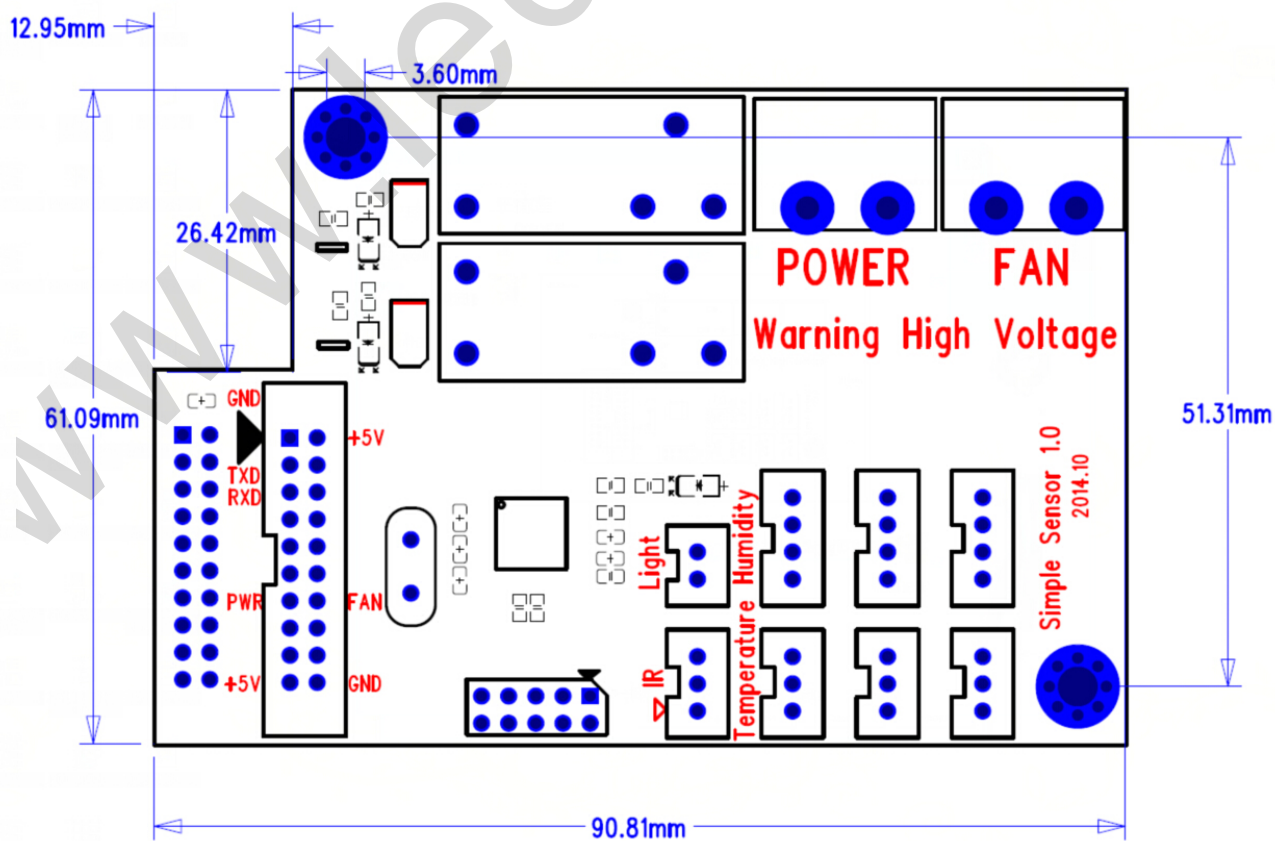


Front view





Back view



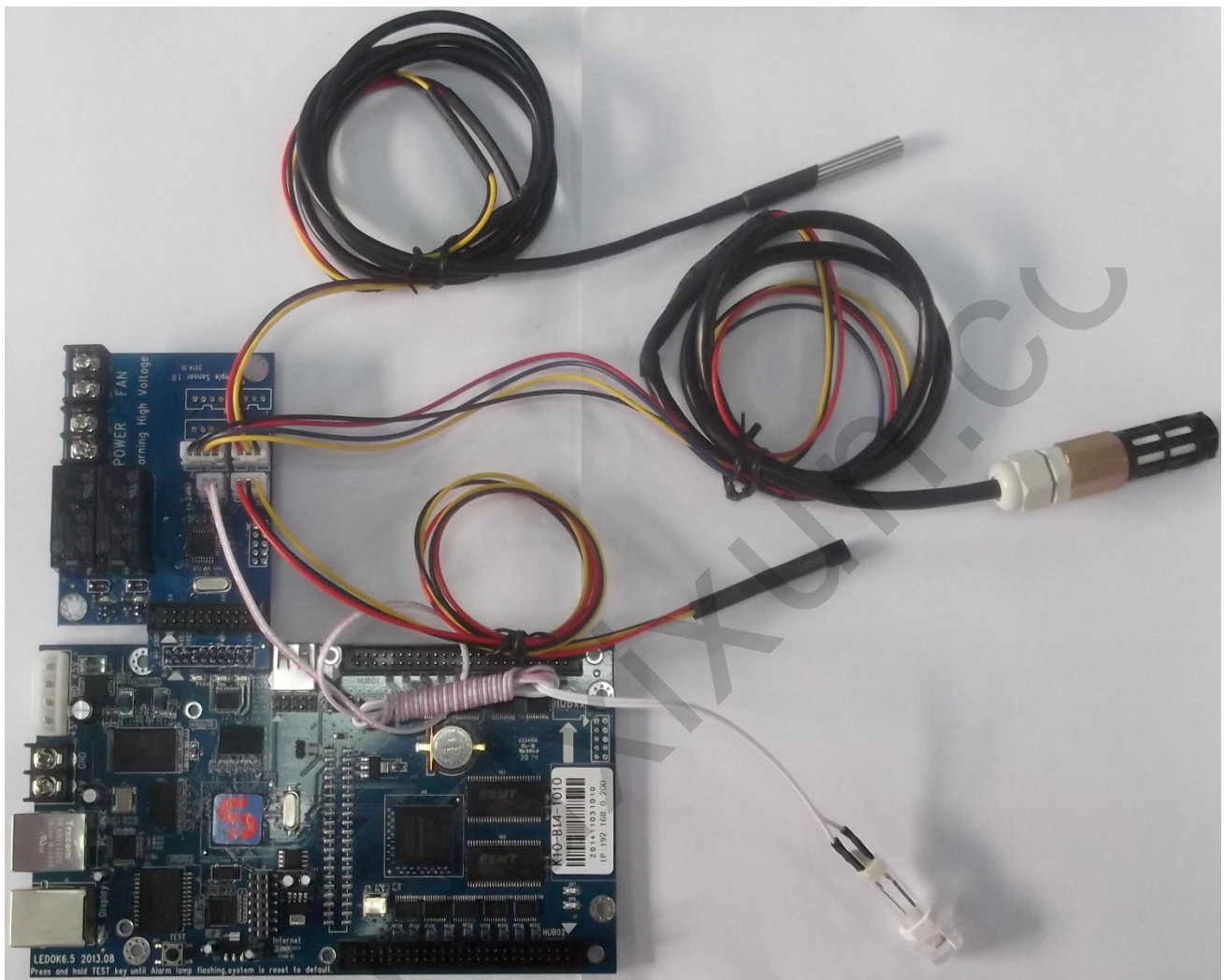


### 3. Connection diagram

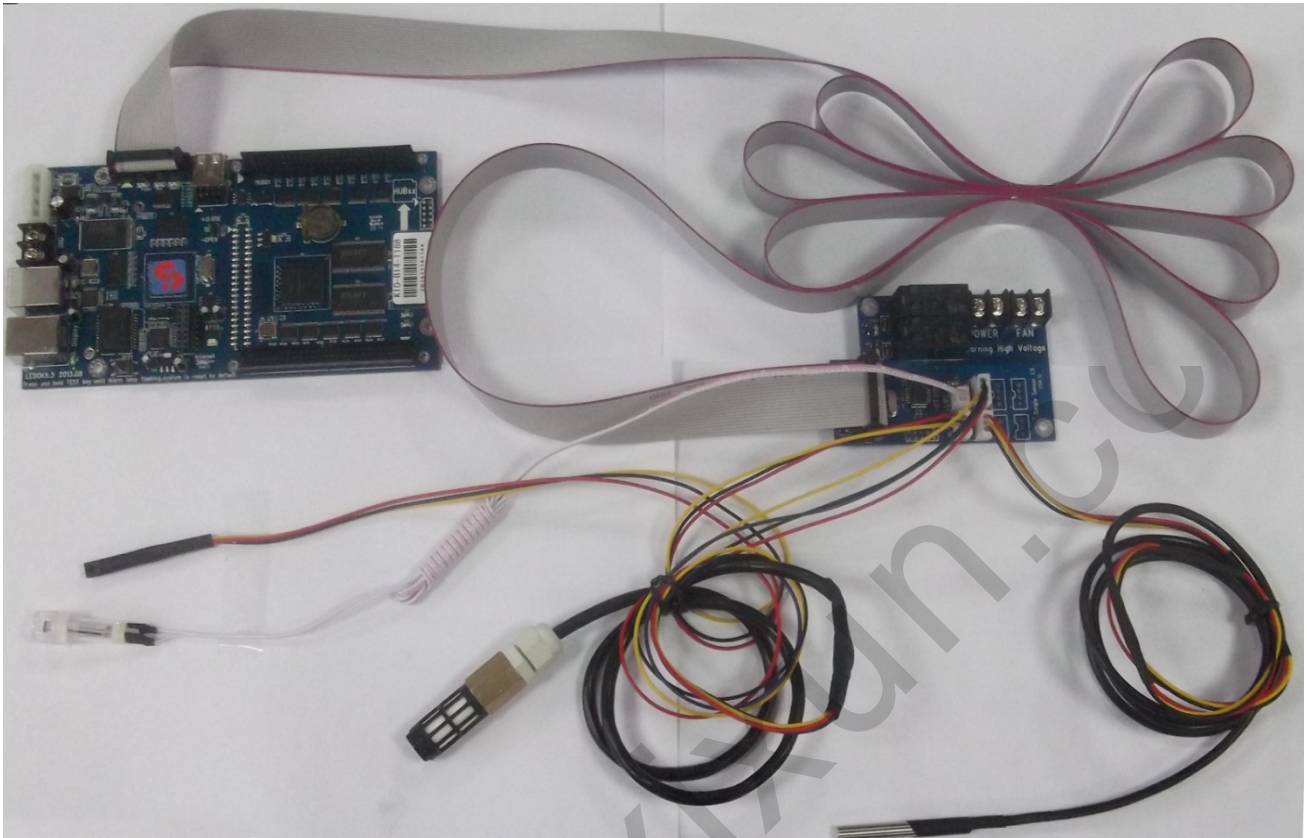




## R30 connects with Led control card:







#### 4. Working condition

Humidity precision	$\pm 4.5$ (%RH)
Humidity range	0~100 (%RH)
Temperature precision	$\pm 0.5^{\circ}\text{C}$
Temperature range	$-55^{\circ}\text{C}\sim+125^{\circ}\text{C}$