

# Tomonitor

atmospheric environmental temperature and humidity monitoring solutions

Temperature • Humidity • Gas • PM2.5 • Pressure • Illuminance • Noise • Wind speed • Weather station

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monitoring solutions for the machine room of labs

### Introduction

The HUATO developed HE5201 multifunctional monitor is a multifunctional device targeting the monitoring of power consumption and environmental temperature and humidity for labs. It monitors electric power, noise, temperature, humidity, water leakage and door-entry check. It has built-in RJ45 port. Suitable for the monitoring of lab instruments like various heating appliances, electric machinery, voltage transformer, AC power, etc.



### Features

- WiFi heat source detection --- update: show signal strength, WiFi address, mac address, encryption status.
- Sound detection—update: need to show sound level decibel data
- RFID --- update: creating a white list for the correspondence of name and code.
- Door-entry management delay alarm when door opens --- update: delay time and remind voice for door close (female voice to remind: please close the door ) can be set in device if needed.
- Various alarms can be set, monitoring center will send SMS to alarm when data value exceeds preset range
- Records up to 30,000 readings , data can be save in PDF, Excel etc, format.



### General specifications

Power supply	DC12V	Measurement range	50 m <sup>2</sup>
Sensor	Water leakage monitoring, electromagnetic valve sensor		
Display	Successively displays temperature, humidity values etc, in turn		
Size	217.8x125x35mm		
LCD display size	4.3inch/ resolution 480×272		
Net weight	170g		
Accessories	Door switch, RFID, electricity meter, Water leakage electrode, temperature humidity sensor, 12V adapter, WiFi antenna.		
Port	RJ45		

### Model list

Model	HE 5201		
Temperature precision	±0.5℃	Humidity precision	± 5%RH
Temperature measurement range	-20-+60 ℃	Humidity measurement range	0~100%RH
Electric power	75KW	Electric power precision	± 1 %
Sensor type	External	RFID module is with 1 meter cable	
Environment nois	35 ~ 130 decibel		
Recording capacity	30,000 readings		

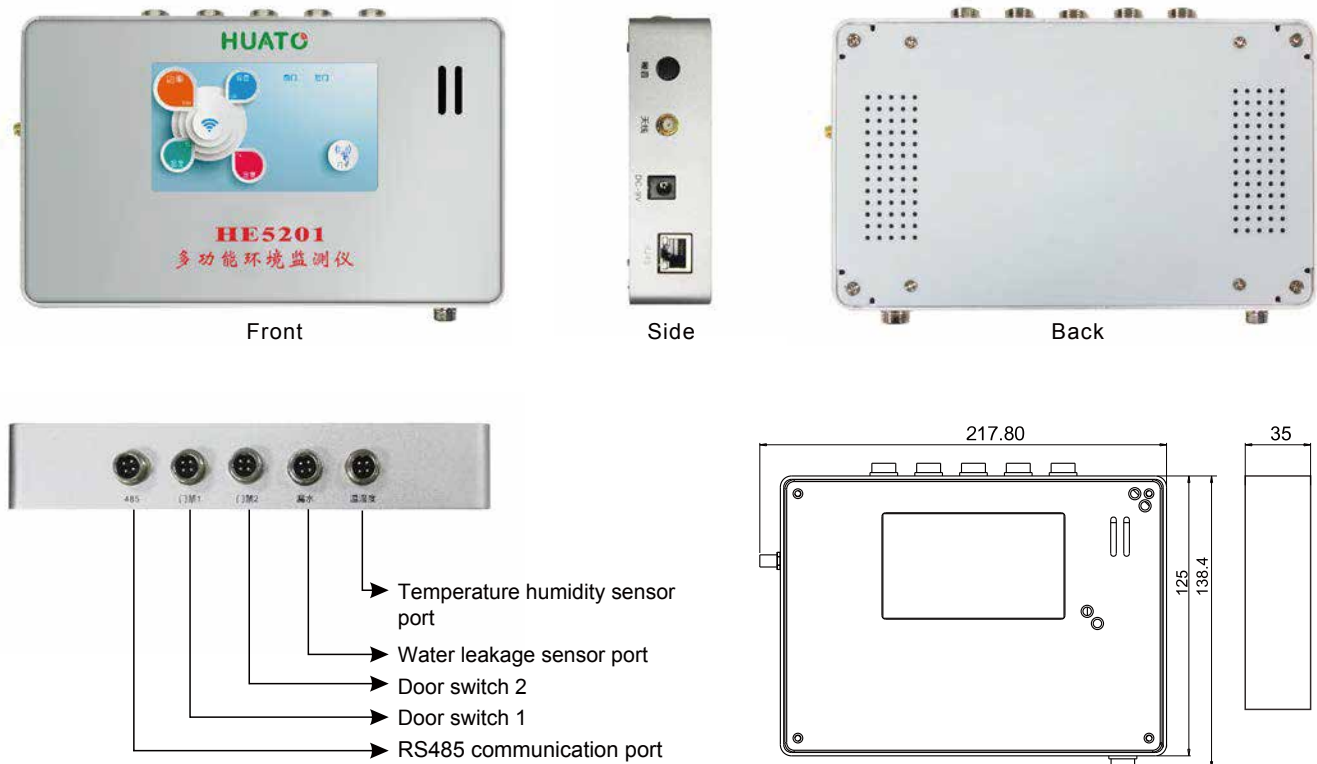
### Standard accessories



### Typical applications

Use in the following fields: electronics, warehouses, research institutes, universities, professional labs, libraries, etc.

### Structure



### Application fields

The energy consumption test of appliances; the energy consumption test of air conditioners; the energy consumption test of lights; the energy consumption test of large sized devices; and for the test of devices in electric power system like power generators and motors, etc.

Providing real-time measurement for power, temperature, humidity, noise, etc. With RJ45 port for remote control and measurement.



Webpage interface: HiSilicon smart environment monitoring system for labs



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“HiSilicon smart labs environment monitoring system” is a basic platform application for the intelligent management of enterprises labs. Its UI is simple and elegant and operation is easy and convenient. The 3 major functions it provides includes: real-time monitoring, data analysis and alarm inquiry.



It always loads real-time data in data analysis UI, when users click and enter a certain section, it will show the data status of the section, including: power, temperature, humidity, noise, water leakage, etc.

Webpage interface: HiSilicon smart environment monitoring system for labs



The data analysis includes 3 major modules: monitoring data, AP heat source, RFID. It shows curve graph in data monitoring UI so users can understand data comprehensively, and then analysis data. Users can check data by time or devices to get correspond data. It shows data in current time in default status.

The screenshot displays the HiSilicon smart environment monitoring system interface, specifically the '报警查询' (Alarm Inquiry) section. The top navigation bar includes '实时监控' (Real-time Monitoring), '数据分析' (Data Analysis), and '报警查询' (Alarm Inquiry). The left sidebar shows a tree view for '深圳' (Shenzhen) with sub-items '分区一' through '分区四'. The main area contains a table with 14 rows of alarm data. The table columns are: '序号' (Serial Number), '实验空名称' (Experiment Name), '分区名称' (Partition Name), '报警类型' (Alarm Type), '报警时间' (Alarm Time), '报警内容' (Alarm Content), and '报警地址' (Alarm Address).

序号	实验空名称	分区名称	报警类型	报警时间	报警内容	报警地址
1	001	分区一	检测报警	2017-05-18 16:12:13	2017-5-18 16:12:001 温度报警:69.0 %RH(0.0,148.0)	
2	001	分区一	检测报警	2017-05-18 16:13:13	2017-5-18 16:13:001 温度报警:69.0 %RH(0.0,148.0) --报警提示已达次数限制!	
3	001	分区一	检测报警	2017-05-18 20:07:15	2017-5-18 20:07:001 湿度报警:71.4 %RH(0.0,148.0)	
4	001	分区一	检测报警	2017-05-18 20:08:15	2017-5-18 20:08:001 湿度报警:71.4 %RH(0.0,148.0) --报警提示已达次数限制!	
5	001	分区一	检测报警	2017-05-18 20:09:21	2017-5-18 20:09:001 湿度报警:71.4 %RH(0.0,148.0)	
6	001	分区一	检测报警	2017-05-18 20:10:23	2017-5-18 20:10:001 湿度报警:71.4 %RH(0.0,148.0) --报警提示已达次数限制!	
7	001	分区一	检测报警	2017-05-18 20:11:20	2017-5-18 20:11:001 湿度报警:71.4 %RH(0.0,148.0)	
8	001	分区一	检测报警	2017-05-18 20:12:20	2017-5-18 20:12:001 湿度报警:71.4 %RH(0.0,148.0) --报警提示已达次数限制!	
9	001	分区一	检测报警	2017-05-18 20:14:18	2017-5-18 20:14:001 湿度报警:71.5 %RH(0.0,148.0)	
10	001	分区一	检测报警	2017-05-18 20:15:15	2017-5-18 20:15:001 湿度报警:71.5 %RH(0.0,148.0) --报警提示已达次数限制!	
11	001	分区一	检测报警	2017-05-18 20:17:23	2017-5-18 20:17:001 湿度报警:71.6 %RH(0.0,148.0)	
12	001	分区一	检测报警	2017-05-18 20:18:23	2017-5-18 20:18:001 湿度报警:71.6 %RH(0.0,148.0) --报警提示已达次数限制!	
13	001	分区一	检测报警	2017-05-18 20:20:20	2017-5-18 20:20:001 湿度报警:71.8 %RH(0.0,148.0)	
14	001	分区一	检测报警	2017-05-18 20:21:18	2017-5-18 20:21:001 湿度报警:71.8 %RH(0.0,148.0) --报警提示已达次数限制!	

Alarm inquiry includes 3 major functions : data checking alarm, door entry management alarm, water leakage detection alarm. Select device, time, then click inquiry to get corresponding data. It shows the data of current device in current time in default status.