



System Monitoring Terminal

AP-KS9302

User Manual

Shanghai Anping Static Technology Co.,Ltd

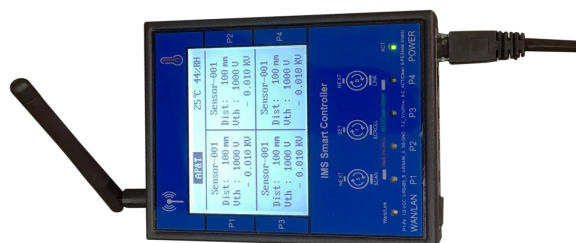
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AP-KS9302 system monitoring terminal

◆ Product effect



◆Product description

The AP-KS9302 system monitoring terminal is a monitoring display of the static monitoring and elimination system produced by AP&T, and is used for monitoring the working state of the pulsed DC ion fan, the pulsed AC ion bar, and the electrostatic sensor.

System monitoring terminal (AP-KS9302), also known as IMS intelligent monitor, can provide 4 communication network transmission, support LAN/WAN connection, flexibly configure real-time monitoring static electricity detection and elimination equipment, realize power supply, data interaction, real-time display, linkage, etc.

Features.

◆ Features

- 1) Monitoring and display of static eliminator and sensor working status.
- 2) It can monitor the working status of 4-way equipment at the same time.
- 3) 4-way working status indicator, 1 way communication status indicator, 1 road indicator light.
- 4) RJ45 power supply and communication interface.
- 5) RS485 and wireless communication functions.

◆ Specifications

No.	Specifications						
1	Adapter	IN:AC85-240V OUT:24V 2A					
2	Product Size	100*120*25					
3	Indication	LED					
4	Digital display	3.5 Inch COG, monochrome					
5	Working environment	Temperature: 0-50℃; Humidity: 30-70%RH					
6	Product network port	4 port: P1-P4					
7	Network port definition	1、2	3	4	5、6、9	7	8
		White-orange, orange	White-blue	Blue	White-green, green	White-brown	Brown
		VCC	RS485_B	RS485_A	GND、PE	NPN-C1	NPN-C2

8	Communication network port	WAN/LAN
9	Power network port	POWER
10	Net weight	400g
11	Gross weight	500g

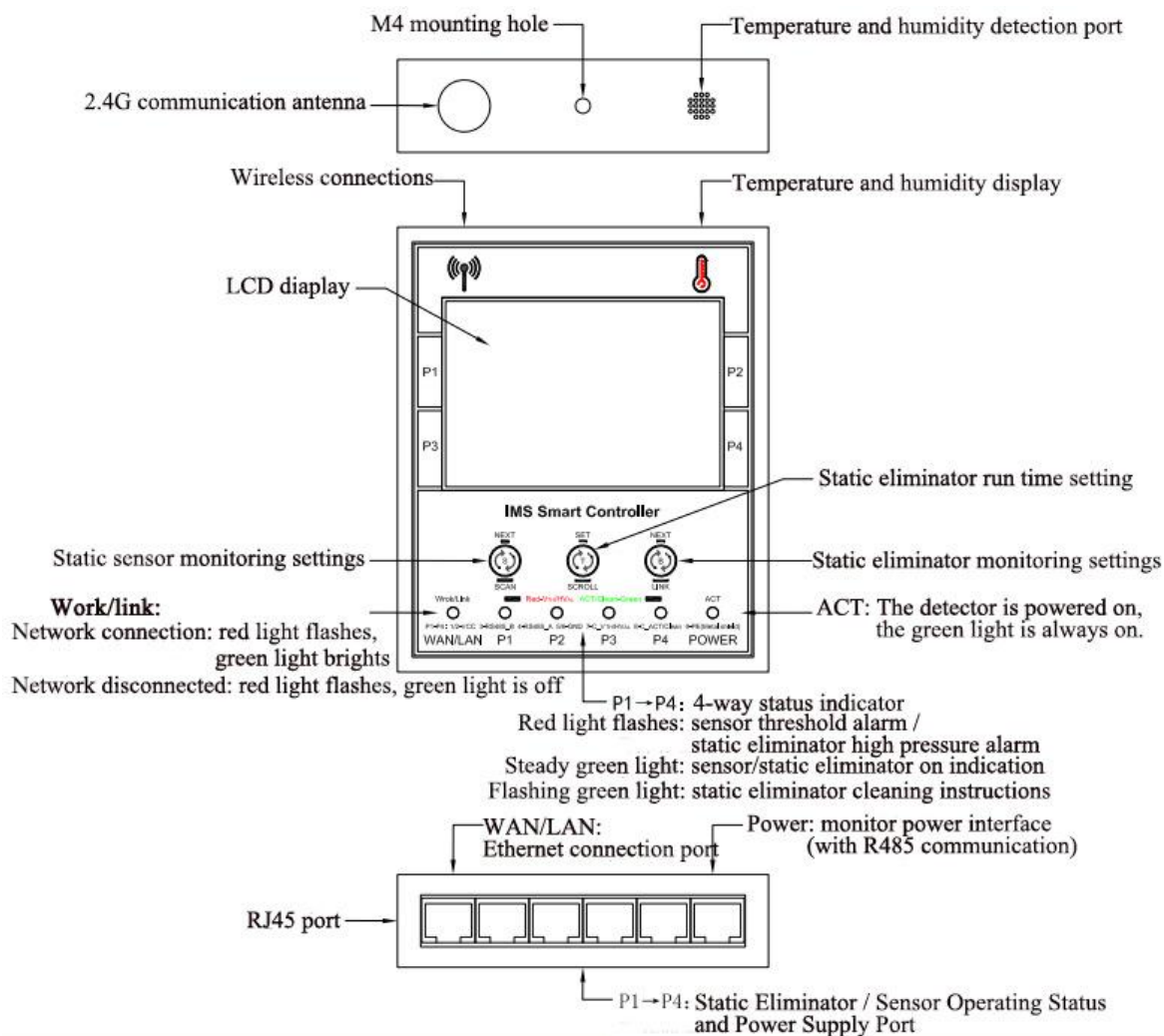
No.	Function parameter					
1	Network port	POWER	Power interface (with RS485 communication method)			
		P1-P4	Static eliminator or static sensor			
		WAN/LAN	Ethernet connection			
2	LED	P1-P4	Red	Static eliminator	High voltage indication	flicker
				static sensor	Threshold indication	
			Green	Static eliminator	Power on indication	Constantly bright
				static sensor		
				Static eliminator	Cleaning instructions	flicker

Note: 1.P1 - P4 : Power supply limit, only 2 heaters can be connected

2.WAN/LAN: This network port cannot be connected to the power supply, otherwise the wireless module will be damaged.

◆ Function introduction






1、Functional diagram:



2、Network port cable function information

Network port cable function information		
1、 2	Orange, white-orange	VCC: +24VDC
3	Blue	RS485+B
4	White-blue	RS485+A
5	Green	GND
6	White-green	GND
7	Brown	V _{TH} : Electrostatic sensor threshold alarm HV _{AL} : Static eliminator high pressure alarm
8	White-brown	ACT: Electrostatic sensor / static eliminator power-on indication Clean: Static eliminator cleaning instructions
9	Metal shield	PE

3、Function description table

	antenna (2.4G)	
	Temperature and humidity sensor	
P1-P4	a	Four electrostatic sensors
	b	Two electrostatic sensors, two static eliminators
	NEXT	Short press _ to select the product (an electrostatic sensor that must be linked)
	S	Product_electrostatic sensor
	SCAN	Long press _ search product
	SET	Short press _ select time (10S、20s、30S、60S、90S、120S、360S)
	T	Time_static eliminator running time
	SCROLL	Long press _ quick adjustment time
	NEXT	Short press _ select (a static eliminator)
	B	Product_Static Eliminator
	LINK	Long press _ linkage (static sensor and static eliminator linkage control)
Red-VTH/HVAL	HVAL	Static eliminator high pressure alarm indication
	VTH	Electrostatic sensor threshold alarm indication
	Red	Red light indication
ACT/Clean-Green	Green	Green light indication
	ACT	Product online instructions
	Clean	Static eliminator cleaning instructions
WAN/LAN	Ethernet connection method (default LAN)	
Wrok/Link	Wrok	Red light flashes _ standby state, red light is off _ no power or module damage
	Link	Green light does not illuminate _ not connected, green light is always on _ connected

POWER	DC_24/2A
ACT	Green light normally light_connected power supply

4、Features

4.1 Real-time display of ambient temperature and humidity in the upper right corner of the IMS intelligent monitor screen

4.2 Network port POWER is the power supply port of IMS intelligent monitor. The normal power supply is green light. P1-P4 is the external product power supply and data monitoring port. AL1-AL4 indicates the working/status of the external product. Normally, the green light is always on, and the abnormal red light is on.

4.3 The LINK indicator shows the WIFI connection status of the IMS intelligent monitor. The red light of the module is working normally. The connection is successful. The green light is on and the green indicator is off.

4.4 SCAN Press and hold the search device, short press to light the screen

4.5 LINK long press to jump to the setting interface

4.6 Short press SCAN_NEXT static elimination device linkage sensor

4.7 Short press SCROLL_SET to set the elimination time

4.8 Short press LINK_NEXT to switch to the next setting

◆ Safety warning

1. Please read the instruction manual carefully before installing and using the device.

2. The working input power supply must be reliably connected to the grounding line of the electrical power supply line. The grounding resistance is less than 4 ohms; otherwise, the equipment may be abnormal or even damaged.

3. It is not advisable to use the device in a >70% humidity environment.

4. It is strictly forbidden to use this equipment in flammable and explosive environments.

5. It is strictly forbidden to disassemble the product without authorization. Internal maintenance and repair must be carried out by professionals.

6. The product is strictly prohibited from touching water stains, otherwise abnormalities may occur, resulting in electric shock or fire.

7. Turn off the power when inspecting or replacing the product, otherwise it may cause electric shock or fire.

8. The product is designed for static electricity monitoring. It is strictly forbidden to do other purposes. Any abnormal use may cause machine malfunction, electric shock, fire and other hidden dangers.

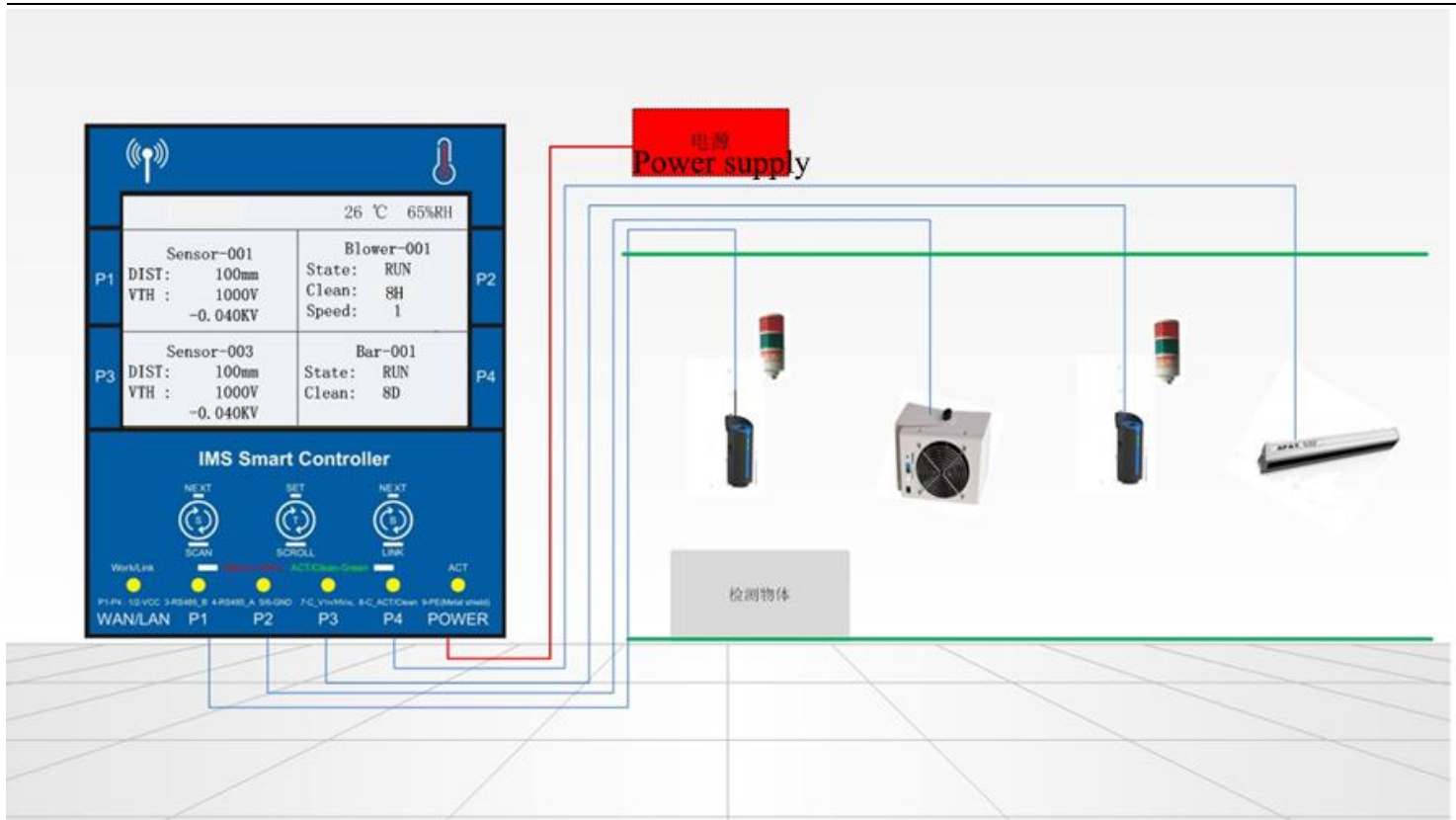
9. Before powering on the product, please check the input voltage. Any power supply that does not meet the specifications will cause damage or even failure.

10. Please check the power cord of the product regularly. If it is damaged, please replace it immediately, otherwise it will cause problems such as leakage and abnormal operation.

◆ Installation instructions

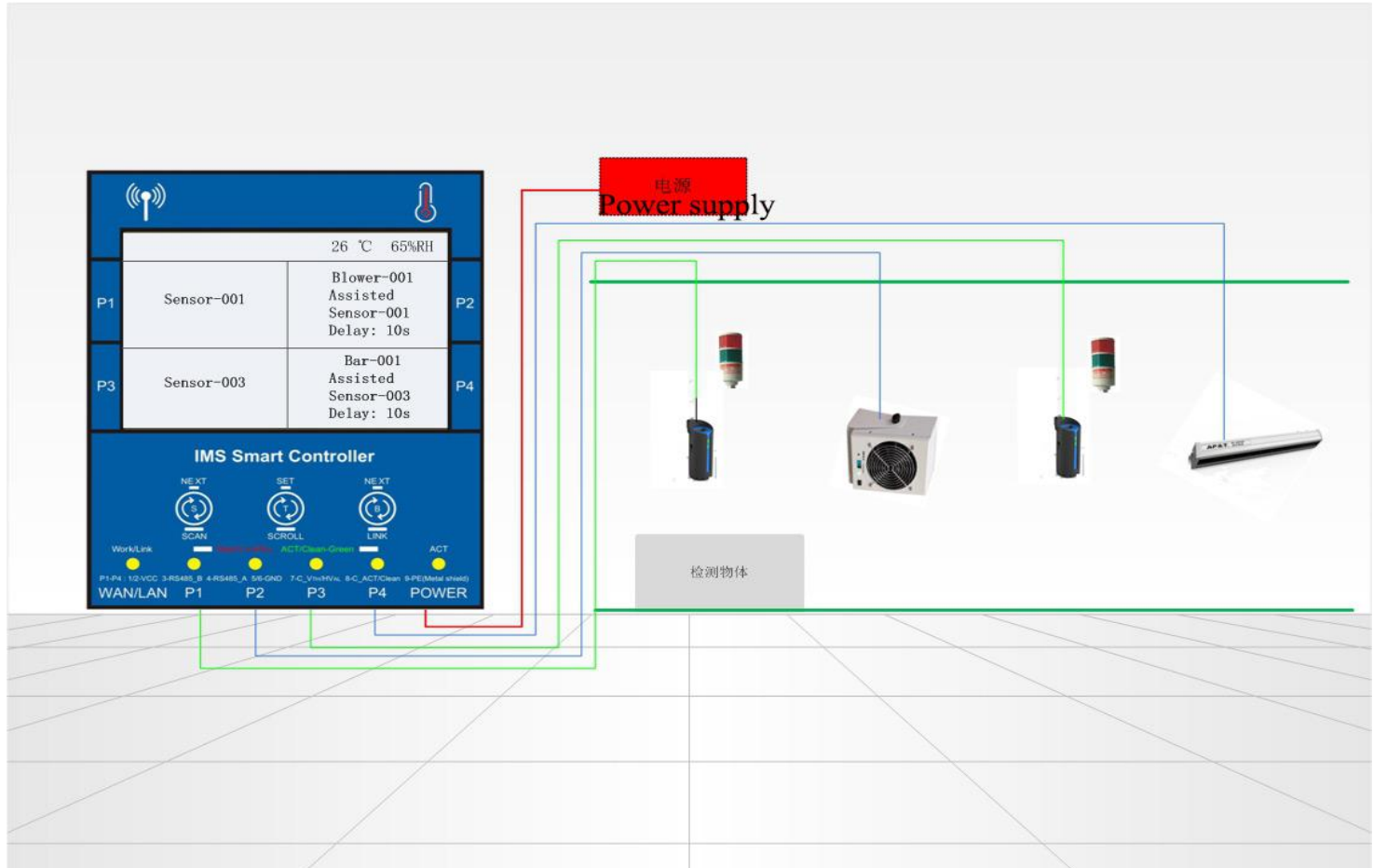
1、Search device

After turning on the power, long press the SCAN button to search for the device, and about 10S shows the connected devices online. Connect two electrostatic sensors and two power-dissipating devices as shown below, and display them as follows (Sensor-001/Sensor-003/Bar-001/Blower-001)。



2、Linkage equipment

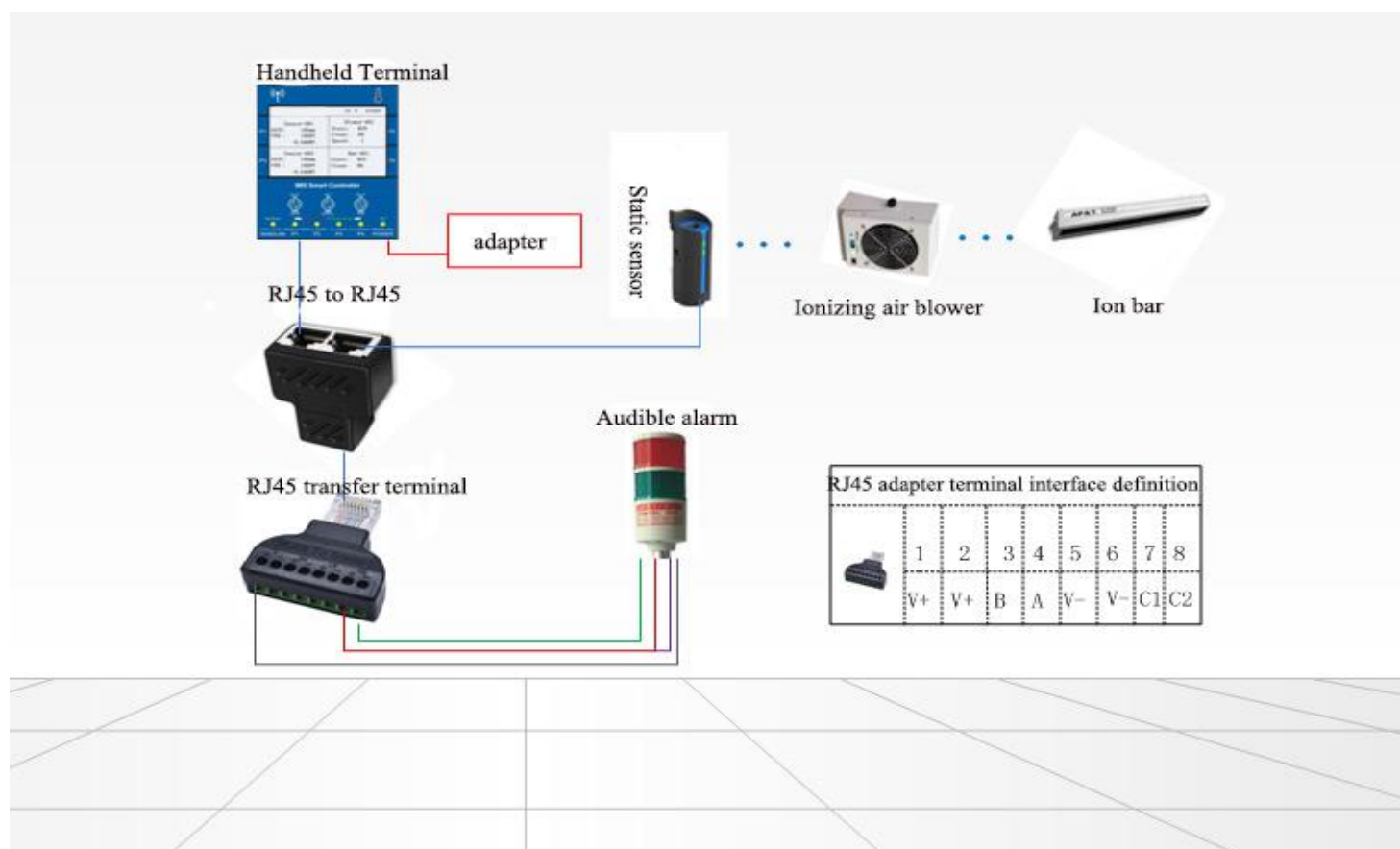
Long press LINK to jump to the setting interface, short press SCAN_NEXT static elimination device linkage sensor, short press SCROLL_SET to set the elimination time (delay time 10S-360S), short press LINK_NEXT to jump to the next page setting. Connect the electrostatic sensor to the power-dissipating device as shown below.



3、Abnormal alarm

The IMS intelligent monitor is connected by RJ45 to RJ45, one end is connected to the detection device and

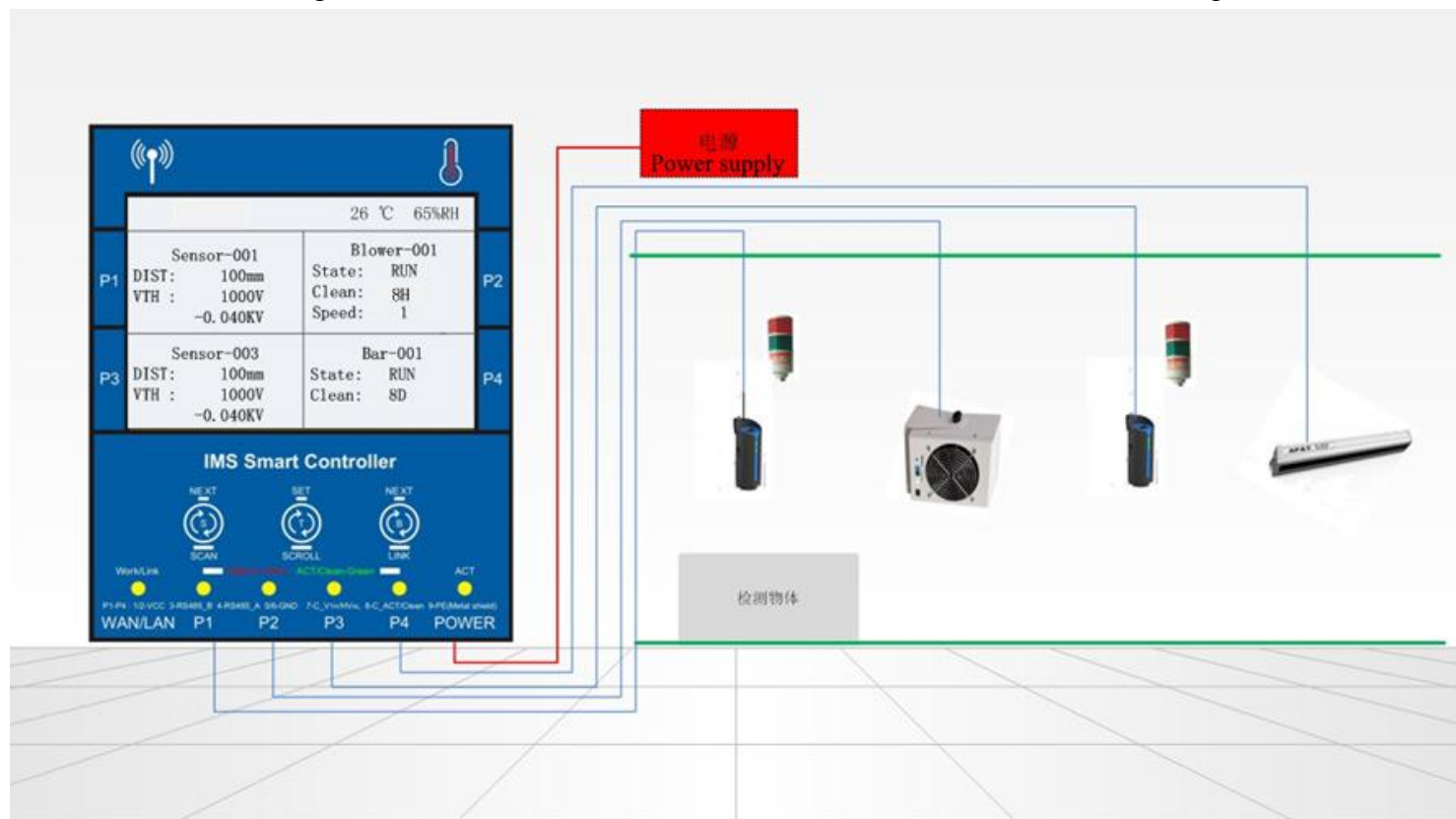
the elimination device, and one end is inserted into the RJ45 extension terminal to connect to the sound and light alarm. When the sensor or/and the elimination device is detected, the sound and light alarm lights up red and Accompanying beep.



4、Master-slave mode

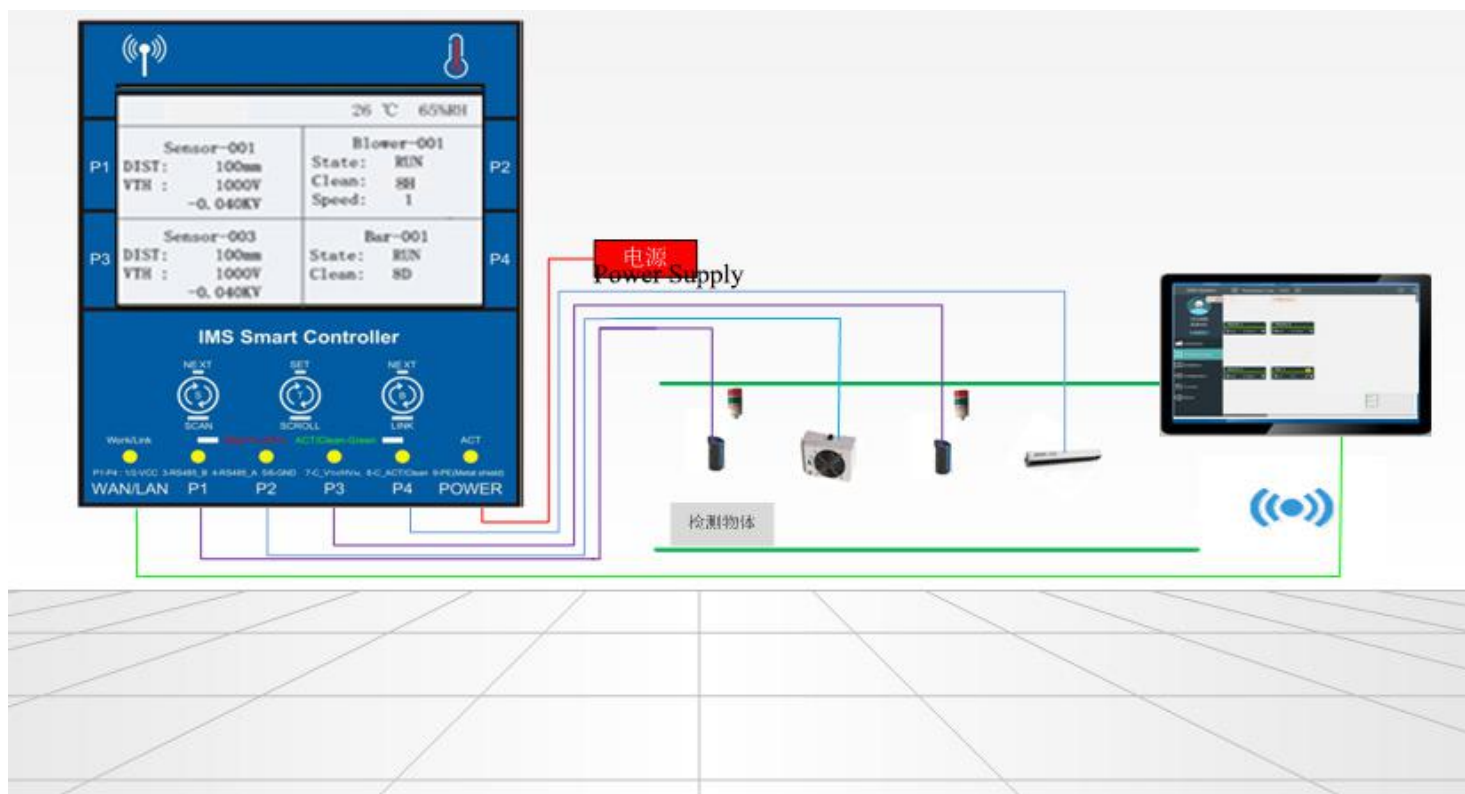
4.1 Host mode

The IMS intelligent monitor supports reading the working information of the external static detecting device and the static eliminating device in the host mode, and can set related related static elimination products.

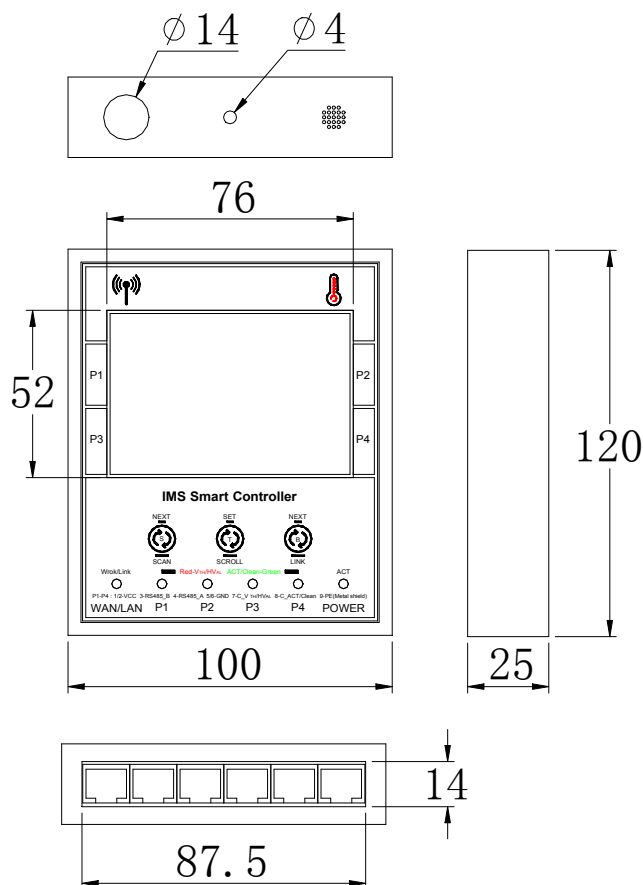


4.2 Slave mode

The IMS intelligent monitor is connected to the computer through WIFI/RJ45, and the IMS intelligent monitor can be connected in the IMS software. The IMS intelligent monitor enters the PC slave mode, and thus the static electricity connected to the IMS intelligent monitor can be performed in the IMS software. Detect and eliminate product operations.



◆ External size chart



◆ Product Maintenance

When the system monitoring terminal confirms that the device is properly connected and the normal power supply state, the display or / and working status indicators on the panel are off, and should be stopped, and checked and repaired by professional maintenance personnel. The electrical performance indicators to be tested are normal. be usable.

◆ After-sale service

1. The system monitoring terminal undergoes strict test and inspection and aging treatment before leaving the factory, and the performance fully meets the relevant indicators marked in the instructions for use.
2. AP&T makes the following commitments to the user: Within one year from the date of purchase, the company will repair or replace any parts that have been inspected by the company for free. However, this commitment does not apply to the following:
 - (1) The device was misused and installed;
 - (2) Inadvertent or accidental damage during use;
 - (3) Self-modification, disassembly, or repair by other service departments not authorized by Anping.
3. AP&T assumes no responsibility or liability for product users other than repair or replacement of parts specified herein.

◆Packaging accessories

1, manual 2, certificate 3, power adapter 4, GB power cord 5, power network cable × 2