



SOUTHERN MACHINERY



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SEC900 Intelligent ESD Access Control System Turnstile Gate



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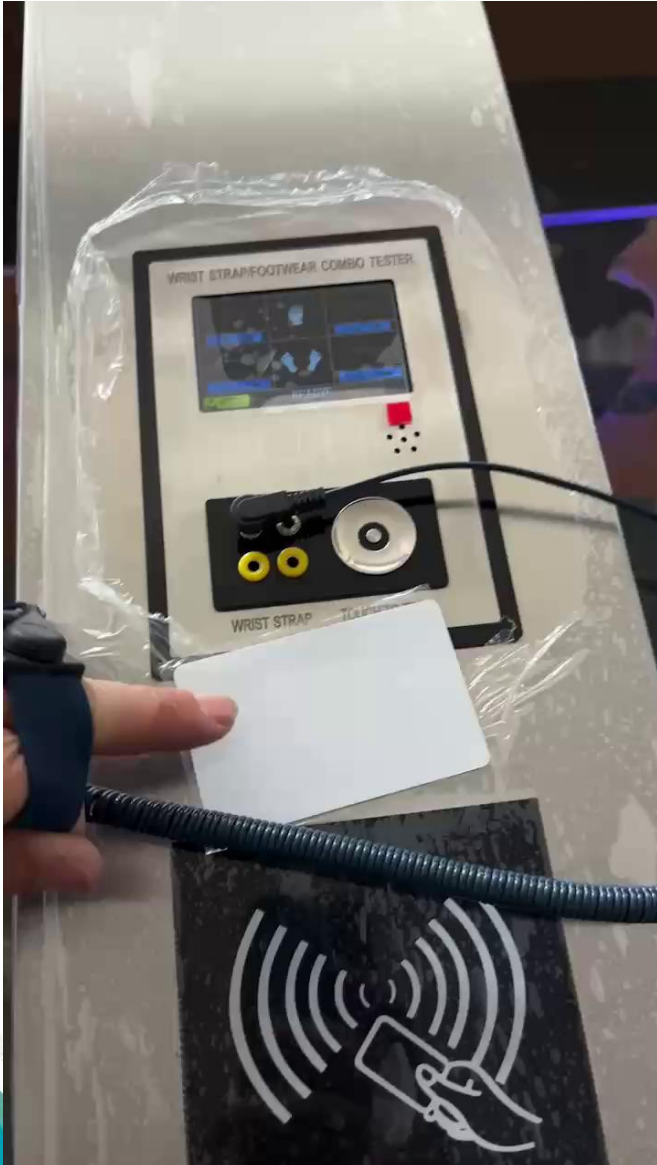
PRODUCT

TRUST

BRAND

POWER

Please see video



This ESD (electrostatic discharge) system is an access control system designed to detect the static electricity carried by personnel entering an ESD-protected work area.

Combining a comprehensive human body static electricity tester (manufactured in accordance with GJB 3007-97, SJ/T 10694-2006, and ANSI ESD S20.20 standards) with static electricity access control equipment and computerized management software, this advanced product ensures that personnel entering the static electricity protection zone have properly prepared for static electricity protection.

When integrated with access gates as crowd control devices, the system offers multiple entry methods based on card permissions (hand measurement, dual shoe measurement, hand and shoe on the same side, or no measurement). The system provides an orderly and civilized access method for personnel, prevents unauthorized entry, and enables rapid gate control in emergencies to facilitate personnel evacuation.

ESD-三辊闸



ESD-Tripod Turnstile

Chassis Size: L1200 * W280 * H980mm (customizable)

Passage Width: 600mm

Indicator Light: Go/No Go indicator

Fire Safety Application: Arm drops automatically on power failure

Display Screen: 7-inch

Recognition Method: Card/fingerprint/face, etc. (optional)

Networking Mode: Offline or networked (TCP/IP)

Operating Direction: Bidirectional (entry and exit)

ESD-翼闸



ESD-Flap Barrier

Chassis Size: L1200 * W300 * H980mm (customizable)

Passage Width: 600mm (customizable)

Indicator Lights: Go/No Go/Passage indicators

Fire Safety Application: Gates open automatically on power failure

Display Screen: 7-inch

Recognition Method: Card/fingerprint/face, etc. (optional)

Networking Mode: Offline or networked (TCP/IP)

Operating Direction: Bidirectional (entry and exit)

ESD-摆闸



ESD-Swing Gate

Chassis Size: L1200 * W280 * H980mm (customizable)

Passage Width: 600mm (customizable)

Indicator Lights: Go/No Go/Passage indicators

Fire Safety Application: Gates open automatically on power failure

Display Screen: 7-inch

Recognition Method: Card/fingerprint/face, etc. (optional)

Networking Mode: Offline or networked (TCP/IP)

Operating Direction: Bidirectional (entry and exit)

ESD-墙挂式



ESD-Wall-Mounted

Chassis Size: L440 * W270 * H75mm (customizable)

Display Screen: 7-inch

Recognition Method: Card/fingerprint/face, etc. (optional)

Networking Mode: Offline or networked (TCP/IP)

ESD-无障碍通道



ESD-Barrier-Free Access

Chassis Size: L320 * W280 * H1000mm (customizable)
 Indicator Light: Go/No Go indicator
 Display Screen: 7-inch
 Recognition Method: Card/fingerprint/face, etc. (optional)
 Networking Mode: Offline or networked (TCP/IP)

ESD-支架式



ESD-Bracket Style

Offline use — no networking function
 Networking Mode: Offline
 Signal Output: Door open signal
 Dimensions: Customizable
 Height Adjustment: Customizable

ESD-速通门



ESD-Speed Gate

Chassis Size: L1400 * W140 * H1000mm (customizable)
 Passage Width: 600mm (customizable)
 Indicator Lights: Go/No Go/Passage indicators
 Fire Safety Application: Gates open automatically on power failure
 Display Screen: 10-inch
 Recognition Method: Card/fingerprint/face, etc. (optional)
 Networking Mode: Offline or networked (TCP/IP)
 Operating Direction: Bidirectional (entry and exit)

定制类型

Custom Types

Turnstile function, size, style, etc., customization
 ESD management software function customization
 Display screen page customization
 Tester parameter customization
 Third-party interface integration customization
 Hardware output interface customization
 Special software/hardware requirement customization, etc.

The system consists of the following parts:

WEB ESD Management Software

ESD Cloud Controller

7-inch Display Screen

Electrostatic Tester

Dual Shoe Test Plate

Recognition Module
(can be selected individually or in combination):

Face Recognition Machine
Fingerprint Machine
Card Reader

Turnstile Gate



Flexible Personnel Test Authority Allocation: Multiple test items can be set through the software, such as: A. Test single-circuit wrist strap only B. Test electrostatic shoes only C. Test hand and shoes simultaneously D. Test exemption E. Test dual-circuit wrist strap, etc.

Real-time Display and Recording of All Event Data: Includes personnel information (name, ID, photo, department, position), time, access channel location, event type, test item, and test result (including specific values), etc.

Channel Authority Setting: Set which doors different positions or workshop personnel can access and during what times.

One-time Test for All-day Access: This function can be enabled, meaning after passing the test once, direct card swiping is allowed for the rest of the day to improve passage speed.

Test-to-Open with Any Card: This function can be enabled, allowing a successful test with any card (including invalid ones) to open the door.

Data Management: Supports batch downloading of personnel data, importing/exporting personnel lists and record reports; batch cancellation and deletion of personnel based on table information.

Report Filtering Function: Record reports can be filtered by test details, query range (device, department, test item, etc.), pass rate, personnel who should have been tested but were not, number of card swipes for tests, and employee entry/exit counts.

Convenient Personnel Information Entry: Can be operated in a single window for convenience and speed.

Time Zone and Period Control: Multiple time zone opening times can be set, with support for holiday control.

Multi-user Management: Supports simultaneous login for multiple users and setting of different management permissions.

Monitoring and Snapshot: Supports adding cameras for real-time monitoring and capturing images at the gate.

Status Monitoring: Real-time monitoring of the online status of all channels.

System Log and Management: Provides software operation log inquiry, new user addition, user permission allocation, language switching, etc.

Anti-Passback Function: Within a set time frame, card swipe records must appear in pairs (entry before exit) to prevent buddy punching.

Large-scale Device Management: One software suite can manage hundreds of devices in different areas.

Personnel Count and Limit: The software can automatically count the number of people inside the workshop, outside, and in total, and can enable a personnel limit function (the gate will not open and will send an alert when the set value is reached).

Simple Installation and Operation: The software supports one-click installation, has a minimalist design style, and a user-friendly operation process, making it easy to learn.

静电测试仪主机



Type:	SPEC:
Power Supply	AC-coupled adapter (8-12VDC)
Voltage/Current:	Voltage $\leq 400V$ (peak, DC or AC); Switching current $\leq 130mA$, Contact resistance < 300
Standards Compliant:	GJB 3007-97, SJ/T 10694-1996 and ANSI ESD S20.20.
Test Modes:	Single-wire wrist strap, double-wire wrist strap, electrostatic dual shoes.
Testing Principle:	Uses micro-current testing for more stable and accurate data.
Test Range:	Wrist Strap: Lower limit 100K, 750K Ω ; Upper limit 10M, 35M Ω ESD Shoes: Lower limit 100K, 300K, 500K, 750K Ω ; Upper limit 35M, 100M, 500M, 1000M Ω
Resistance Adjustment:	Can be adjusted via software settings or tester DIP switch. No need to return to the factory.
Error Range:	Overall error $\pm 5\%$
Test Button:	Touch-type; not a traditional button with a spring plate, making it durable.
Operating Temp/Humidity:	-10~+60 $^{\circ}C$, Humidity around 60%
Result Display:	The tester's LCD screen, the 7-inch display, and the management software can all simultaneously show specific measured values.
Dual Shoe Test Plate:	Sealed and waterproof, uses shielded cable to prevent interference; distinguishes between left and right shoes.

LAN Architecture:

Install the ESD access control management software on a server or management computer.

Any computer on the LAN can access it by entering the software's IP address into a browser.

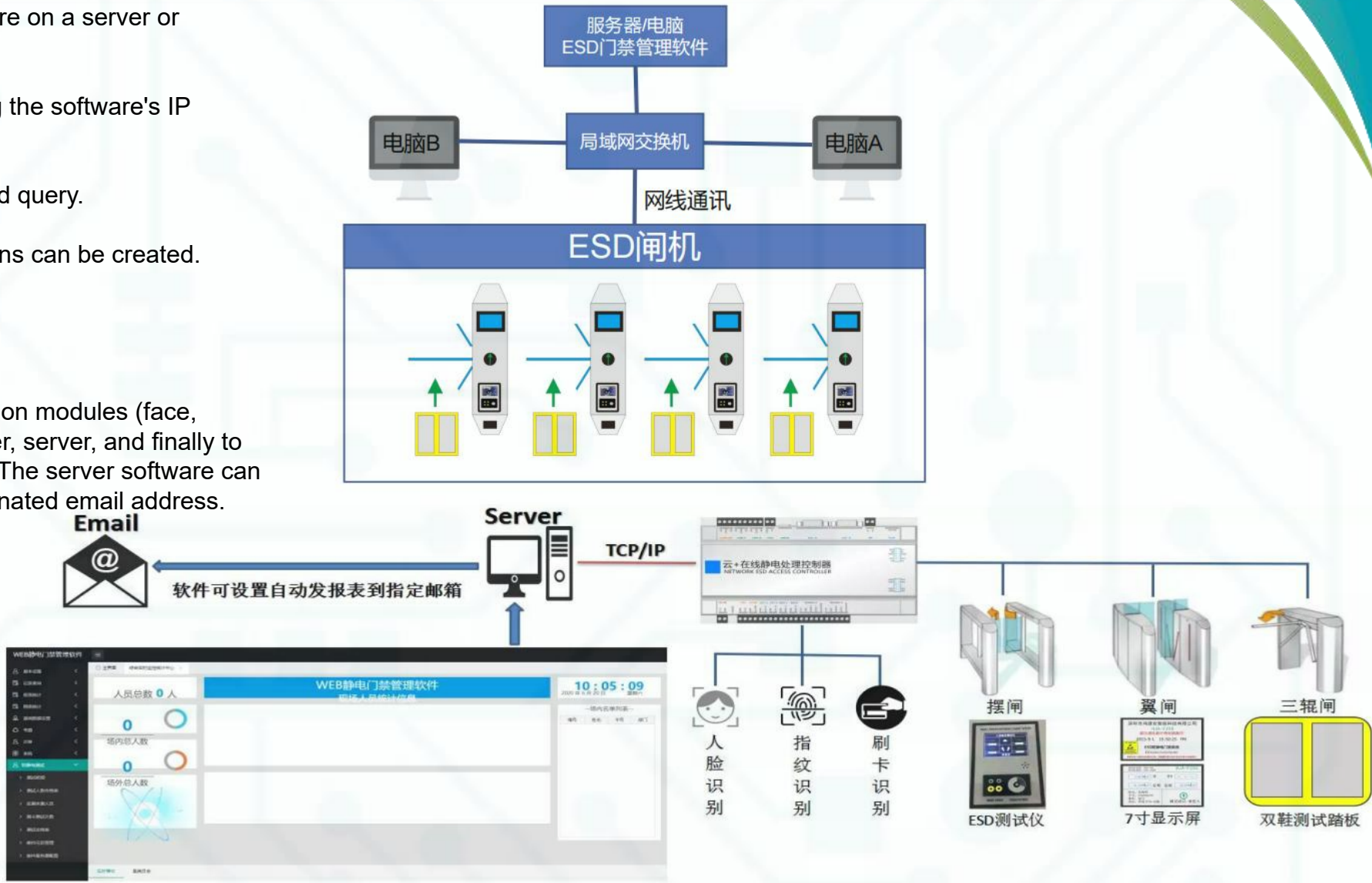
Log in with respective user accounts to manage and query.

Multiple user accounts and management permissions can be created.

No need to install the software on every computer.

System Connection Diagram:

The diagram shows the data flow from the recognition modules (face, fingerprint, card) to the electrostatic tester, controller, server, and finally to the gates (swing gate, flap barrier, tripod turnstile). The server software can also be set to automatically send reports to a designated email address.



In many places with anti-static protection, the testing of anti-static shoes and wrist straps has traditionally been done through manual recording or rough checks. This is not only time-consuming but also prone to missed tests due to human error, creating potential quality risks for sensitive components.

The ESD access control management system effectively solves these problems. Its mandatory settings and targeted testing can eliminate human factors, making the test results more reliable and credible.

While achieving safe, accurate, convenient, and intuitive testing, the entire system also completes paperless recording and automatically generates employee measurement information reports. This helps companies achieve realistic, time-saving, and intuitive employee management, and enhances the company's reputation and image within the industry.





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