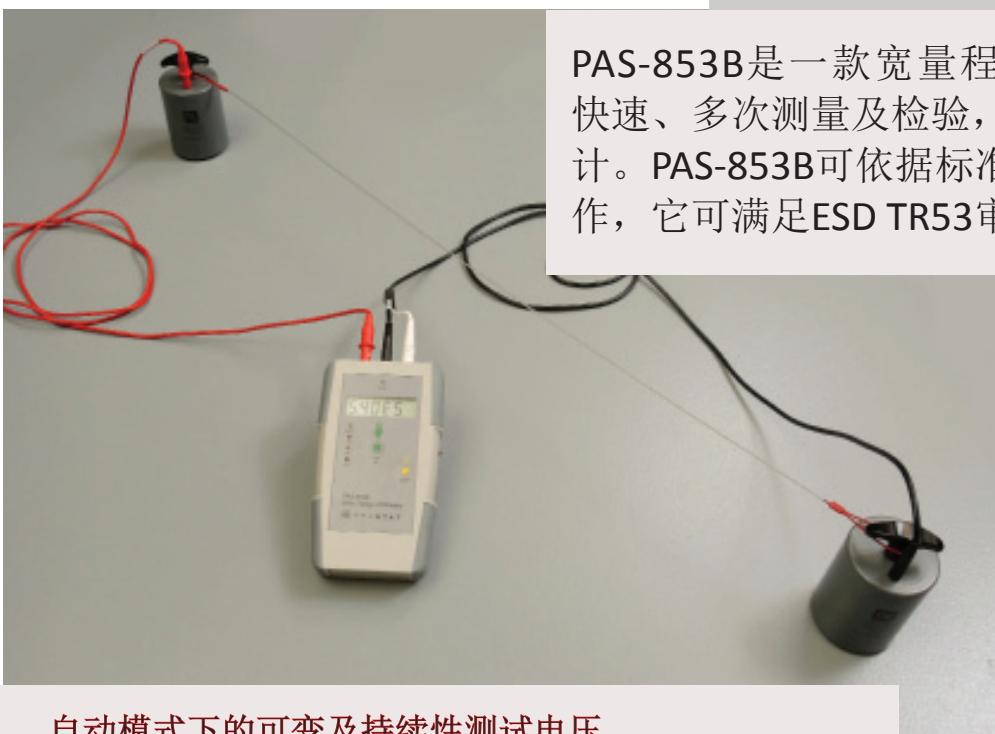


# PAS-853B 宽量程欧姆计



宽量程电阻测量仪，此设备依据ANSI/ESD S20.20 行业标准设计

PAS-853B是一款宽量程电阻测量仪，可满足ESD稽核工程师快速、多次测量及检验，依据ANSI/ESD S20.20 行业标准设计。PAS-853B可依据标准电阻测量步骤即ANSI/ESD 541进行操作，它可满足ESD TR53审核要求。



## 自动模式下的可变及持续性测试电压

- <10 Volts 档位：0.01 —  $9.9 \times 10^3$  ohms
- 10 Volts 档位（持续电压 $\pm 5\%$ ）： $1.0 \times 10^4$  —  $9.99 \times 10^5$  ohms
- 100 Volts 档位（持续电压 $\pm 2\%$ ）： $1.0 \times 10^6$  —  $9.99 \times 10^{12}$  ohms

- 其阻值测量范围可达到：0.01ohms— $9.99 \times 10^{12}$  ohms
- 平均误差值为总量的 $\pm 5\%$
- 全自动调整测量电阻范围、测量电压及供电控制
- 自动或持续供电控制
- 200cm长的高性能测试连接线
- 通过一节9V长续航碱性电池供电
- 配置大尺寸，易读数的LCD显示屏
- 满足ESD协会标准关于材料电阻及稽核时电阻测量的要求
- 校准证书可基于NIST追溯



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# 技术数据

## CONTROLS

### ON/OFF Battery Bus Cut-off

Slide Switch ON SIDE OF CASE

**ON:** Energizes instrument and LCD displays Software Version then **GO A** with **AUTO** indication (Default)

**OFF:** Isolates battery and DC voltage from instrument controls and circuit. Use for transport and storage

### TEST Pad

With Test Leads installed: Press once & Release. Measurements performed automatically

In conjunction with **MODE** changes from Auto operation to Continuous

### MODE Pad

Steps through Auto/Voltage ranges with each press of **MODE** Pad:

- **AUTO:** Default automatic resistance range & Voltage control
- **<10V:** Manual Operation 0.01 to  $\leq 10V$  Test Voltage;  
- Resistance Range: 0.01E-1 to 9.99E9  $\Omega$
- **10V:** Manual Operation at 10V (Nominal, Semi-Constant)  
- Resistance Range: 0.98E4 to 9.99E10  $\Omega$
- **100V:** Manual Operation at 100V ( $\pm 5V$ ) Constant Voltage  
- Resistance Range: 0.98E6 to 9.99E12  $\Omega$   
- When data in **HOLD**, press **MODE** to terminate **HOLD** without changing operational mode  
- Press **MODE** with **TEST** to change from Auto to Continuous  
- Used to measure lead resistance (**NULL**)  
- Used by Prostat Authorized Technicians for Voltage Calibration

## CONNECTIONS

**Positive (+):** Test Voltage (RED) – Supplies test voltage to electrodes/fixtures

**Negative (-):** Current sensing (BLACK) – Conducts current from electrode, fixtures or Ground to instrument

**Chassis (  $\text{⏏}$  ): Shielding connection to chassis (WHITE) – Reduces transmitted energy and effect on current measurement**

**Note:**  $\frac{3}{4}$  inch spacing between RED and BLACK accommodates dual banana BNC adapters

## INDICATION

Colored LED's indicate instrument operational **MODE** and Test Voltage (YELLOW) used for the current measurement, as well as measurement completion (GREEN LED).

- **AUTO:** ON during automatic operations; OFF in Manual mode
- **<10V:**
- **10V**
- **100V**
- **GREEN LED:** Measurement hold

## TYPICAL TOLERANCES

<sup>1</sup>Nominal performance by range:

0.01E-1 -- 1.0E 0 $\Omega$	$\leq \pm 10\%$ , $\pm 2$ Counts
1.0E 0 – 9.99E10 $\Omega$	$\leq \pm 2\%$ , $\pm 2$ Counts
1.0E11 -- 9.99E12 $\Omega$	$\leq \pm 10\%$ , $\pm 4$ Counts

## TEST VOLTAGES

Automatically selected and controlled in **AUTO** mode. May be manually selected by pressing **MODE** pad in the following order:

**<10V** Variable based on resistance load  
- Provides 0.001 to  $\leq 10V$   
- Functional in **AUTO** within range  
0.01  $\Omega$  -  $< 1.0E+4 \Omega$   
- Manual Operation Resistance Range: 0.01E-1 to 9.99E+9  $\Omega$

**10V** Constant Voltage (Under Load)  
- Test Voltage Varies  $\pm < 5\%$  in **AUTO** or Manual Operations  
- Functional in **AUTO** within range  
1.0E+4  $\Omega$  -  $< 1.0E+6 \Omega$   
- Manual Operation Resistance Range: 0.9E+4 to 9.99E+10  $\Omega$

**100V** Constant Voltage (Under Load)

- Test Voltage Varies  $\pm < 2\%$  in **AUTO** or Manual Operations
  - Functional in **AUTO** within range  
1.0E+6  $\Omega$  -  $< 1.0E+13 \Omega$
  - Manual Operation Resistance Range: 0.90E6 to 9.99E12  $\Omega$
- Returns to Auto Mode

## MODES OF OPERATIONS

**GO A:** Performs all automatic and manual voltage select functions, stops and displays measurements after Electrification Period (EP) is complete, then displays data with Green LED ON for 10 seconds.

**GO C:** Performs all automatic and manual voltage select functions, continuously displays measurements until the operator presses **MODE** or **TEST** pads. **GO C** disables electrification period controls.

## POWER

One 9V alkaline transistor battery; battery life > 50 hours

## DIMENSIONS

7.25 in. (184 mm) x 4.3 in. (109 mm) x 1.4 in. (36 mm)

## WEIGHT

13.2 oz. (375 gram) with battery installed

## NOTES

<sup>1</sup>Tolerance and accuracy measurements were conducted under controlled conditions with close tolerance reference resistors.

Do not attempt to open instrument case

- No internal operational parts or adjustments
- Provides access to 100DCV power supply
- Damage to instrument and environmental seals may occur
- Will void warranty
- Store instrument in case and dry environment



的更多信息:  
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