



# AT9236 COMPREHENSIVE SAFETY TESTER

## 100ma Output current

CHINESE/ENGLISH  
OPERATION

246 (W) \* 112 (H) \* 536 (D)  
UNIT: mm

Weight: 20kg

Automatic overvoltage and  
overcurrent protection  
DC fast discharge technology

- Data recording function supports USB storage
- RS232/Handler automation interface

INSULATION TEST RATED OUTPUT

**2.5kVdc/9999MΩ**

AC WITHSTAND VOLTAGE TEST RATED OUTPUT

**5kVac/100mA**

DC WITHSTAND VOLTAGE TEST RATED OUTPUT

**6kVdc/50mA**



■ Power Supply 220VAC 50Hz~60Hz Power: maximum 550VA

The AT9236 Electrical Safety Performance Comprehensive Analyzer is an instrument that integrates multiple testing functions such as electrical strength (AC/DC withstand voltage) and insulation resistance. It is an important testing equipment for various electrical manufacturers and quality inspection departments.

### ● RAPID TESTING

This series of testers uses high-speed microprocessors as the control core and can measure various safety and regulatory parameters of the tested object in real-time. They can complete three tests in as little as 4 seconds, especially meeting the requirements of production lines for fast testing.

### ● SIMPLE OPERATION

This series of testers adopts a 5-inch LCD screen, which can quickly complete various test condition settings and tests using various physical buttons and numeric keyboards, and the operation is simple; The large screen display can display test information and data in more detail on one page.

### ● INTELLIGENT DISCRIMINATION

This series of testers has an intelligent upper and lower limit judgment function, which can automatically identify defective products and provide sound and light alarms.

### ● RELIABLE OPERATION

The entire circuit of this series of testers adopts various anti-interference measures, with strong anti-interference ability. Adopting sine pulse width modulation (SPWM) technology to generate 50Hz or 60Hz standard sine waves, which are driven and output by high-power MOS transistors, achieving contactless regulation of high voltage. At the same time, it has hardware and software protection, greatly improving the reliability of the instrument.

### ● USE SAFETY

Automatic overvoltage and overcurrent protection for safer use

#### INTERFACE

USB-HOST、RS232/RS485、HANDLER、  
Warning lights、External remote control

## MODEL AT9236

### AC WITHSTAND VOLTAGE TEST

Rated Output	5kVac/100mA
Actual Output	500VA, ≥ 90%
AC voltage output	Range (100 ~ 5000) V, Resolution 1V, accuracy $\pm (2\% \times \text{Set value} + 5V)$
Voltage output stability	$\pm (0.4\% \times \text{Set value} + 1V)$ /minute, no load, full load
output frequency	50Hz / 60Hz, accuracy: $\pm 0.1\text{Hz}$
Output waveform distortion	Resistive load: < 2%
Output adjustment	$\pm (2\% \times \text{Setting values} + 5V)$
Short-circuit current	> 200mA
AC voltage	Range (0.10 ~ 5.00) kV, Resolution 0.01kV, accuracy $\pm (1.5\% \times \text{Reading} + 1\text{dgt})$
Upper limit of current	Range (0.00 ~ 100.00) mA, Resolution 0.01mA, Judgment error $\pm (2\% \times \text{set value} + 5\text{dgt})$
Lower limit of current	Range (0.000 ~ 9.999) mA, Resolution 0.001mA, Judgment error $\pm (2\% \times \text{set value} + 5\text{dgt})$
AC current measurement	Range 0.000 ~ 3.500/3.00 ~ 100.00 mA Resolution 0.001/0.01 mA accuracy $\pm (2\% \times \text{Reading} + 5\text{dgt})$
Ramp up and ramp down time	Range: (0.1 ~ 999.9)s, Resolution: 0.1s, accuracy: $\pm (0.2\% \times \text{set value} + 1\text{dgt})$
Duration	Range: Infinite length, (1.0 ~ 999.9) , Resolution : 0.1s, accuracy: $\pm (0.2\% \times \text{set value} + 1\text{dgt})$
ARC Detector	1 ~ 9 (9 is the most sensitive), 0 represents the function of turning off the arc
Current compensation	0.000 ~ 100.00mA, Total current+compensation current < 100mA, automatic

### AC WITHSTAND VOLTAGE TEST

Rated output	6kVdc / 50mA
Actual Output	60VA, ≥ 90%
AC voltage output	Range (100 ~ 6000) Vdc, Resolution 1V, accuracy $\pm (2\% \times \text{set value} + 5V)$
Voltage output stability	Range (0.10 ~ 6.00) kVdc, Resolution 10V, accuracy $\pm (1.5\% \times \text{Reading} + 1\text{dgt})$
output frequency	< 5% (6kV/1mA Resistive load)
Output adjustment	$\pm (2\% \times \text{set value} + 5V)$ , Empty to full load
Upper limit of current	Range (0 ~ 9999) $\mu\text{A}$ /50mA, Resolution 0.1 $\mu\text{A}$ /0.01mA, Judgment error $\pm (2\% \times \text{set value} + 5\text{dgt})$
Lower limit of current	Range (0.0 ~ 999.9) $\mu\text{A}$ , Resolution : 0.1 $\mu\text{A}$ , Judgment error: $\pm (2\% \times \text{set value} + 5\text{dgt})$
DC current measurement	Range 0.0 ~ 350.0/300 ~ 3500/3000 ~ 9999 $\mu\text{A}$ /50mA, Resolution 0.1/1/10 $\mu\text{A}$ /0.01mA, Judgment error $\pm (2\% \times \text{Reading} + 5\text{dgt})$
Ramp up time	Range: (0.4 ~ 999.9) s ;Resolution 0.1s accuracy: $\pm 0.2\% \times \text{set value} + 1\text{dgt}$
Duration	Range: (0.5 ~ 999.9) s ; Infinite length; Resolution 0.1s; accuracy: $\pm 0.2\% \times \text{set value} + 1\text{dgt}$
Slow descent time	Range: Off (1.0 ~ 999.9) s ;Resolution 0.1s accuracy: $\pm 0.2\% \times \text{set value} + 1\text{dgt}$
ARC Detector	1 ~ 9 (9 is the most sensitive), 0 represents the function of turning off the arc
Current compensation	(0 ~ 200.0) $\mu\text{A}$ , Auto, manual
Slowly increasing upper limit current	On/Off, with an upper limit current of 12mA when on
Charging lower limit current	(0 ~ 3500) $\mu\text{A}$ , Auto, manual
Discharge time	$\leq 200\text{ms}$
Max capacitive load	1 $\mu\text{F}$ < 1kV, 0.75 $\mu\text{F}$ < 2kV, 0.5 $\mu\text{F}$ < 3kV, 0.08 $\mu\text{F}$ < 4kV, 0.04 $\mu\text{F}$ < 6kV

## INSULATION RESISTANCE TEST

Rated Output	2.5kVdc/9999M $\Omega$
DC voltage output	Range (100 ~ 2500) Vdc, Resolution: 1V, accuracy: $\pm (2\% \times \text{set value} + 5V)$
DC voltage measurement	Range (100 ~ 2500) Vdc, Resolution: 10V, accuracy: $\pm (2\% \times \text{Reading} + 5V)$
Drop voltage	Not less than 90% of rated voltage, drop resistance 10M $\Omega$ (1%range)
Insulation resistance	Range (1 ~ 9999) M $\Omega$ , Resolution: 1M $\Omega$
Ramp up time	Range: (0.1 ~ 999.9) s, Resolution: 0.1s, accuracy: $\pm 0.2\% \times \text{set value} + 1\text{dgt}$
Discharge time	$\leq 200\text{ms}$
Charging lower limit current	(0 ~ 3.500) $\mu\text{A}$ , Auto, manual