

# Charged plate analyzer Model 268A

- Easiest, most reliable way to check effectiveness of all ionization-type static control systems
- Meets ESD Association Standard No. 3
- Removable, cable-connected plate/probe permits precise positioning and remote monitoring
- Separate time and voltage displays for decay rate analysis
- Recorder output for permanent records and unattended operation
- Two ranges measure from 0 to  $\pm 5\text{kV}$
- Dramatically demonstrates induced charges and human body charge

## Evaluate all ionization systems and antistatic devices – and demonstrate charge presence

Two operating modes cover all types of ionization systems.

**For room and table-top ionization systems, laminar flow hoods, and air guns and nozzles** the normal (discharge) mode provides both static decay timing and system balance monitoring.

**For pulsed DC ionization systems** the peak mode monitors voltage swings by reading and holding the peak voltage and polarity (positive or negative) sensed on the charged plate.



## Make sure antistatic devices are working

Wrist straps, work surfaces, flooring materials – static decay measurement is a sure indication that they're doing their job. The plate has a connector to permit measurement of charge buildup on operators.

## Easy to use

To operate in discharge mode:

1. Locate the removable plate/probe where ionization is to be checked, main instrument where convenient.
2. Turn the instrument on and select test parameters (mode, polarity, voltage range, and upper and lower voltage limits across which the decay rate is to be measured).
3. Press ZERO to ground the plate, then press CHARGE to bring the plate to the preselected maximum voltage.
4. Press DECAY. As the ionization system neutralizes the plate charge, the instrument will continuously measure the decaying voltage. Elapsed time (in seconds) is displayed on the front panel, along with plate voltage. The speed at which the voltage drops is proportional to ionization system performance.

Measurement in the peak mode is just as simple.

## Adjustable time decay option

The optional time decay adjustment provides full control of test parameters. Consult factory for details.

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## Specifications

### CHARGED PLATE/PROBE ASSEMBLY

Capacitance of total  
discharge test circuit

with plate: 20 ±2 picofarads

Plate self-discharge

rate: < 10% of set voltage  
within 5 minutes

Dimensions: 6 x 6 inches (15.2 x 15.2 cm)

### POWER SUPPLY

Maximum output: ±6000 volts

Available plate

charging voltages: ±1000 V and ±5000 V,  
continuously adjustable from  
0 to 5000 V

### ELECTROSTATIC FIELDMETER

Ranges selectable: 0 to ±5000 V, 0 to ±2000 V

Accuracy: Better than 2%

Drift: < 0.4% per hour, noncumulative  
after 10 minutes stabilization

Speed of response: < 100 msec from 10% to 90% of  
full scale in either range

Bandwidth: 60 Hz

Output: 1/1000 of plate voltage

### TIMER

Max time measured: 999.9 sec (16 minutes +)

Resolution: 0.1 sec

### COMPLETE INSTRUMENT

Power requirements: 117 or 220 VAC ± 10%, 50/60  
Hz (factory preset), 5 watts

Dimensions

(H x W x D): 6¾ x 6¾ x 9½ inches  
(17 x 17 x 24cm)

Weight: 5 lbs (11 kg)

## The best warranty in the business

Since Monroe Electronics offers the finest, most complete line of ESD instrumentation, it's appropriate that we back our products with an equally superior warranty: 2 years on all parts and labor.

## The finest ESD instrumentation and support

For more than 30 years we have been the technology and quality leader in electrostatic detection and measurement instrumentation - ever since we invented the feedback nulled electrostatic voltmeter. Today we offer the world's only complete array of fieldmeters, voltmeters, resistivity meters and power supplies. Our customers range from NASA and the leading makers of photocopiers and laser printers to converters and microelectronics manufacturers worldwide.

But we know you need quality support as well as quality products. That's why we drive ourselves to provide the most knowledgeable applications and installation support - as well as superior customer service.

It's no accident that our distributors are among the finest in the industry. It's a natural match.

## How can we help?

Contact your Monroe Electronics dealer for price and delivery information on this and other ME products, or to schedule a no-obligation demonstration at your convenience. For the name of your nearest dealer, or for technical or applications assistance, contact Monroe Electronics at the address and phone numbers below.

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