Charge Plate Analyzer

model **268A**

Features:

- **Easiest, most reliable way to check effectiveness of all ionization-type static control systems**
- **Meets ESD Association Standard ANSI / ESD STM 3.1**
- **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 ±5kV**
- **Dramatically demonstrates induced charges and human body potential**

Evaluate all ionization systems and anti-static 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/potential.

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 volt age. 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.

Model 268A-1T adjustable timer option

This option allows the user to set the timer stop voltage at any level from 0 V to 1000 V. The start voltages remain the same.

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TREK Has Joined Advanced Energy

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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% at 1 KV 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 1100 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, TYP.
Speed of response:	<100 msec from 10% to 90% of full scale in either range
Bandwidth:	6 Hz
Output:	1/1000 of plate voltage

Timer

Limits:	1.0 kV/100 V or 5.0 kV/500 V (user selectable)
Max time measured:	999.9 sec (16 minutes +)
Resolution:	0.1 sec

Complete Instrument

Power Hz **requirements:**	117 or 220 VAC ±10%, 50/60 (factory preset), 5 watts
Dimensions:	6¾ x 6¾ x 9½ inches (17 x 17 x 24cm)
Weight:	5.5 lbs (2.3 kg)
Accessories:	Manual

Calibration:

Monroe Electronics instruments are factory-calibrated prior to shipment. Recalibration should be performed annually, or more frequently if specified by contract or company policy. Your instrument should also be recalibrated any time it has been repaired or tampered with. We will be happy to perform the calibration for you or refer you to one of our Authorized Service Organizations.

Warranty:

Monroe Electronics, Inc., warrants that each instrument and sub-assembly manufactured by them shall be free from defects in material and workmanship for a period of two years after shipment from the factory. This warranty is applicable to the original purchaser only.

The Monroe Electrostatic & ESD product line is now owned by Advanced Energy and managed by TREK in Lockport, NY.

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