Charge Plate System

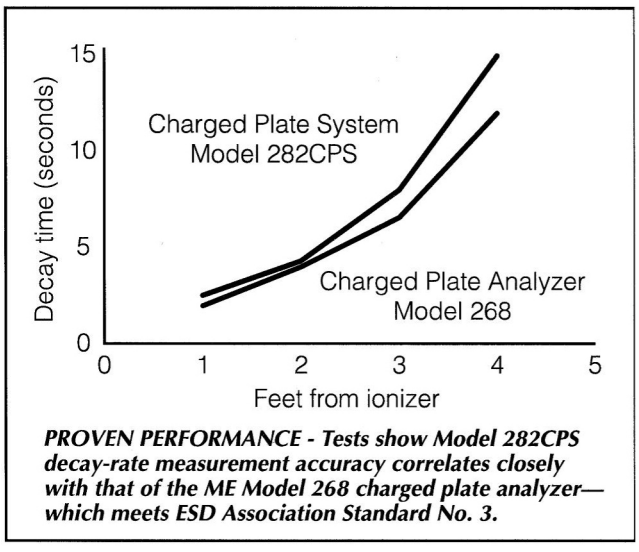
model **282CPS**

Features:

- **Portability at a low cost**
- **Exceeds current requirements of ESD Assn. SP3.3 for periodic Verification of Air Ionizers**
- **Performs go/no-go, balance, and decay tests**
- **Includes dual polarity charger, adapter, and carrying case**
- **Attaches to Model 282 fieldmeter**

The fast, easy, low cost way to check air ionizer performance:

The Model 282CPS makes it practical to check your ionizers every shift. This system is an option for the Monroe Electronics Model 282 fieldmeter. So you get the accuracy and convenience you can depend on at a price you can't pass up.



PROVEN PERFORMANCE - Tests show Model 282CPS decay-rate measurement accuracy correlates closely with that of the ME Model 268 charged plate analyzer—which meets ESD Association Standard No. 3.

Easy to use:

Now it's simple to make sure any ionizer is doing its job.

Go/no-go check

1. While away from any ionized airflow, turn the Model 282 fieldmeter on and check "zero" reading.
2. Slide the plate assembly onto the Model 282 fieldmeter.
3. Select charger polarity by grounding the opposite terminal. (Ground "-" to select "+").
4. To charge the plate adapter, place it in contact with the appropriate charger terminal.
5. Position the fieldmeter with the plate adapter in the ionizer airflow. The meter should rapidly drop from 1100 V to zero.

Note: All tests should be performed while wearing a wrist strap to ensure a proper ground.

Decay rate check

Follow the steps above, but connect the fieldmeter to chart recorder, or use a stopwatch to measure the time required for the voltage to decay from ±1.00kV to ±0.10kV.

Balance check

Turn on the fieldmeter with the plate adapter attached. Point it into the ionizer airflow, check for an average reading of zero.

An offset reading indicates an unbalanced

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Specifications:

Model 96138 Plate Assembly

Plate Capacitance: 13 picofarads ± 2 picofarads

Range: 0 to ± 2 kV

Grounding: Connection through conductive case of Model 282 fieldmeter

Weight: 1.5 oz

Model 280-1 Charger

Output: 1100 VDC nominal, <1µA max

Output terminals: Two acorn buttons labeled for "+" and "-". To select, ground opposite terminal.

Battery: 9-volt Eveready #216 or equivalent, NEDA #1604

Battery life: 40 hours

Temp. Range: +10° to +30° C (+50° to +80° F)

Relative humidity: 10% to 80% non-condensing

Dimensions: 3.75x2.88x1inch (9.53x7.32x2.54 cm)

Weight: 2.8oz (79 gm)

Model 282A Digital Stat-Arc™ 3 or 282IS Digital Stat-Arc 2 for Hazardous locations (not included) Refer to individual data sheets.

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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