

## MONROE 282CPS

Charge plate system accessory for Monroe 282 fieldmeters and a charging source to charge the plate attachment



The Monroe 282CPS is an accessory for the Monroe 282 Fieldmeter that permits the Monroe 282 to measure ionizer performance. The Monroe 282CPS includes a charge plate attachment for the fieldmeter and a charging source to charge the plate attachment. The fieldmeter then measures the plate voltage during balance and decay tests

### PRODUCT HIGHLIGHTS

- Lowest-cost test method for periodic verification of ionizers
- Correlates closely to charged-plate monitor test results
- 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 Monroe 282 fieldmeter and also works with Monroe 281

# MONROE CHARGE PLATE SYSTEM 282CPS

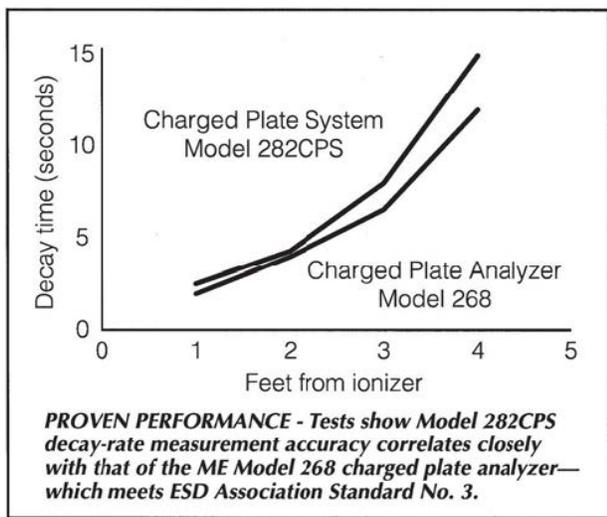
## TECHNICAL DATA

Monroe 96138 Plate Assembly	
Plate Capacitance	13 picofarads $\pm$ 2 picofarads
Range	0 to $\pm$ 2 kV
Grounding	Connection through conductive case of Monroe 282 fieldmeter
Weight	1.5 oz

Monroe 280-1 Charger	
Output	20 to 80% $\pm$ 3% of reading
Output Terminals	Two acorn buttons labeled for "+" and "-". To select, ground opposite terminal.
Battery	9 V Eveready #216 or equivalent, NEDA #1604
Battery Life	40 hours
Temperature Range	10 to 30°C (50 to 80°F)
Dimensions (H x W x D)	9.53x 7.32 x 2.54 cm (3.75 x 2.88 x 1 in)
Weight	79.01 g (2.79 oz)
Relative Humidity	10 to 80% noncondensing

<sup>1</sup> Monroe 282A Digital StatArc™ 3 or 282IS Digital StatArc 2 for Hazardous locations (not included) Refer to individual data sheets.

## PROVEN PERFORMANCE



## EASY-TO-USE OPERATION

### Go/no-go Check

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1. While away from any ionized airflow, turn the Monroe 282 fieldmeter on and check "zero" reading.
2. Slide the plate assembly onto the Monroe 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

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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  $\pm 1.00$  kV to  $\pm 0.10$  kV.

### Balance Check

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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 unbalance.



For international contact information,  
visit [advancedenergy.com](http://advancedenergy.com).

[sales.support@aei.com](mailto:sales.support@aei.com)  
+1.970.221.0108

## ABOUT ADVANCED ENERGY

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AE's power solutions enable customer innovation in complex semiconductor and industrial thin film plasma manufacturing processes, demanding high and low voltage applications, and temperature-critical thermal processes.

With deep applications know-how and responsive service and support across the globe, AE builds collaborative partnerships to meet rapid technological developments, propel growth for its customers and power the future of technology.

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