

# New Accessories for Charged Plate Monitors

Trek Models 156A, 157, and 158

## DI Water Probe

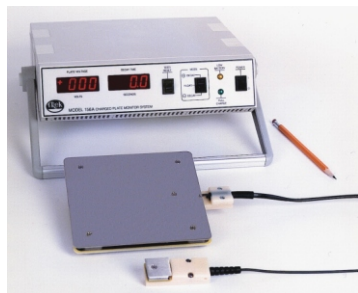


Trek's new Model PM08035 probes can be used for electrostatic measurement of de-ionized water. As shown here, the probe is used during a critical wafer sawing process to monitor for charge accumulation. Probes can be used with other applications or processes involving de-ionized water.

Two probe models are available for user defined or application specific purposes. The Model PM08035A probe has a 0.25 inch sensor. The Model PM08035B probe has an independent wire sensor.

## Low Profile Charged Plate

Trek Low Profile Charged Plate [LPCP] provides a design used for ESD monitoring of sensitive manufacturing processes in tight spacing situations. The thin plate is under 7 mm in height, light-weight and can be hand-held for easy transport.



Model 156A



Model 157



Model 158

*Trek Charged Plate Monitors Model 156A, 157, and 158*

- *Ideal for monitoring static charge in a manufacturing facility*
- *Suitable for dissipative testing of materials*

### Model 157

- *Store & retrieve data as data points or graphs*
- *Record operator comments for reference*

### Model 158

- *User-Friendly Compact Design with Superior Data Collection and Data Storage Capability*
- *PC Memory Card Port for Ample Data Storage*

### Technology

Trek's **charged plate monitors** employ a revolutionary charged-plate monitor design that utilizes an ultrahigh-impedance high-voltage follower to monitor the ion collecting plate. This technique provides high accuracy and virtually infinite impedance loading of the plate, while allowing the ion collecting plate to be charged and monitored through the same small-diameter cable connection.

### Flexibility

Trek's technology makes the measurement capacitance independent of the physical size and shape of the ion collecting plate, thereby, the size and shape, as well as the measurement capacitance, to be customized to match a particular ESD-sensitive device within a manufacturing process, or be made to conform to the ANSI/ESD-STM3.1 standard test method.

### Greater Bandwidth

Trek's technology also provides greater bandwidth enabling "true" responses to be observed, avoiding the masking of results which can occur with lower bandwidth systems.

### Balance Tests/Discharge Tests

All models resolve 0.1 volts and feature high accuracy with extremely low offset and drift, which is ideal for testing ionizers in facilities requiring critical ion balance such as in GMR and TMR manufacturing areas.



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