

# PROSTAT<sup>®</sup> CVM-780 Contact Voltmeter<sup>™</sup>

IF YOU CAN TOUCH IT...YOU CAN MEASURE IT!

The New CVM-780 Contact Voltmeter<sup>™</sup> combines the ease of use of a digital voltmeter with the high input impedance and low input capacitance of a true electrostatic voltmeter in a small, portable, battery operated package.



## ESD Analysis Applications

Analyze process, devices and assemblies for causes of Charge Device and Machine Model losses. Measure voltages on:

- Device Lead Frame Contacts
- Circuit Board Traces
- Automatic Test Contacts
- Conductors in process critical path
- Machine parts
- Placement heads
- Handlers
- Production Aids
- Chairs
- Carts
- Personnel
- Trays
- Shelving
- Conductive Containers

### CVM-780 Contact Voltmeter<sup>™</sup>

- MEASURE VOLTAGES WITH PINPOINT ACCURACY
- CERAMIC PROBE TIPS ALLOW ACCURATE MEASUREMENT
- READS REAL VOLTAGE
- VALUABLE ESD ANALYSIS TOOL

[www.contactvoltmeter.com](http://www.contactvoltmeter.com)

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YOU CAN MEASURE IT!**



**CVM-780 SET CONSIST OF**

- CVM-780 Base Unit
- Measurement Probe with Tip Cover
- DB-9 Connection Cable
- Four Probe Tips:
  - 2 Gold Plated Metal (1 and ½")
  - 2 Ceramic Composition (1 and ½")
  - Universal Battery Charger
  - Grounding Block and Lead

**DYNAMIC CHARACTERISTICS**

**Response Time**

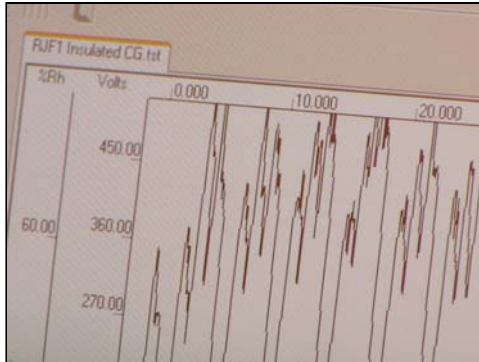
- To digital display:  
3 readings per second
- To monitor output:  
Setting time <10 ms

**Input charge per measurement**

100 femptocoulomb/volt

**Monitor Output Scale Factor**

10,000:1; 100uV/V  
(compatible with Prostat<sup>®</sup> PGA-710 Autoanalysis System<sup>™</sup>)



**A VALUABLE ESD ANALYSIS TOOL**

Being a true electrostatic voltmeter, not a field meter means that it reads real voltage, without confusing it with electrostatic field strength, which can be distinctly different.

The CVM-780 Contact Voltmeter<sup>™</sup> uses a unique active probe design which is fully guarded and shielded for minimal interference with the surrounding E field.

The Contact Voltmeter<sup>™</sup> is powered by rechargeable Nickel Metal Hydride batteries and is a valuable ESD Analysis Tool.



**DC CHARACTERISTICS**

**Range:** ±525 Volts  
**Resolution:** 1 Volt, 3 digit display  
**Basic Accuracy:** ±1%, ±2 Counts

**Tolerances when measuring floating conductors**  
50 to 525 Volts: Target: <±5% (Spec: ±5%, ±2 Counts)  
0 to 49 Volts: Target: <±5% (Spec: ±10%, ±2 Counts)

**Input Tolerance**

10<sup>15</sup> ohm in parallel with <1pF Capacitance

**Continuous Operation per Battery Charge**

Approx. 3.5 Hours (Operates during Battery Charge)