

# Keytek Series 2000



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## Keytek Series 2000 ESD Simulation System

### GENERATORS

- 0 to 25 kV bipolar
- Plug-in, interchangeable discharge networks for different human body models
- Separate simulations for all six key simulation modes at discharge and its five components  
Actual air discharge, plus:
  - \* Current injection of standard waves
  - \* Discharge magnetic field
  - \* Discharge electric field collapse
  - \* Pre-discharge electric field
  - \* Pre-discharge corona-generated RF interference
- Programmable repetitive operation
- Interchangeable tips, ball, wedge, point, field generators

### MONITORS

#### Digital voltage monitor measures and displays

1. Programmed high voltage before high voltage trigger is depressed
2. Actual, measured high voltage during charge and after discharge
3. Audible beeper to indicate discharge

### Specifications

#### GENERAL

#### Voltage Range:

- 1 to 25 kV with Ball Tip (and without Extender Cable EC-1)
- 1 to 20 kV with Point and Wedge Tips (DT-2, DT-3)
- 1 to 20kV with Extender Cable EC-1 and any tip

**Polarity:** Operator-Selectable (plus or minus).

**Operating Modes:** Single-shot and repetitive.

**Repetition Rates:** One shot per approximately 1, 3 or 10 seconds.

**Built-In Digital Voltmeter:**

- High Voltage Trigger On: Measures and displays actual high voltage at the ESD Simulator's tip
- High Voltage Trigger Off: Before tip voltage has decayed to below 300-500V, continues to measure and display tip high voltage After tip voltage has decayed to below 300-500V, displays "Program Voltage" -- the voltage that will appear at the tip when the high-voltage trigger is depressed

**Program Voltage Adjust:** Multi-turn, long-life potentiometer, mounted in thumb-accessible position on ESD gun handle.

**Discharge Ground Strap:** Inductance equivalent to that of IEC-specified return, but with insulation adequate for 25kV. Length ~ 2000mm, or 6.5ft.

**Normal / Slow Ramp Selector**

- Slow Ramp Position: In Slow Ramp mode, for repetition rates of one shot per 3 seconds and one shot per 10 seconds, the high-voltage ramps up slowly enough to permit the digital voltmeter to display the voltage at which the simulated ESD breakdown occurs
- Normal Ramp Position: Preferred for most other work.
- Normal ( Single-Shot ) / Burst Selector: In Burst position, allows realistic simulation of multiple discharges even when the ESD tester is on a tripod or is otherwise in a fixed location

**DISCHARGE NETWORKS**

**DN-1**

- Energy Storage Capacitor: 150pf
- Discharge Resistor: 150ohm

**Optional Discharge Networks**

	<b>Energy Storage Capacitor (pF)</b>	<b>Discharge Resistor (ohm)</b>
<b>DN-2</b>	100	1500
<b>DN-3</b>	700 150	100k 150
<b>DN-4</b>	700 150 20	100K 150 30
<b>DN-5</b>	60	10K
<b>DN-6</b>	100	500

<b>DN-10</b>	150	330
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