

IEC61000-4-2, GB/T 17626.2

Model EST802 ESD Generator ESD Simulator/ESD gun

Free Training
& more...



Features

- Contact & air Discharge Output voltage 0~±20KV
- High accuracy(1%),High stability(0.5%) and High resolution (10V)
- Polarity and discharge model can be alternated during the operation of test
- Preseted 10 standard test levels enabling the user to quickly select the voltage from the standard test levels
- Pulse discharge waveform conformed with the IEC6100-4-2 standard
- Most light weight gun in the world(500g)makes the test easy and comfortable ergonomics and avoid fatigue in the test
- Safety and reliability design makes it easy to use in many standard
- Selected discharge pulse single discharge, 1P/s,20P/s

Specifications

- ❖ Charging Resistor R_c between 50M-100M
- ❖ Energy-storage capacitor (C_s+C_d): 150pF±10%
- ❖ Discharge resistor R_d : 330Ω±10%
- ❖ Output voltage:0~±20KV both air and contact discharge
- ❖ Tolerance of output voltage indication: ±1%
- ❖ Polarity of the output voltage: Positive and negative (switchable);
- ❖ Holding time: more than 10s;
- ❖ discharge, mode of operation: single discharge, 1P/s, 20P/s
- ❖ Output voltage indicator:3 1/2 LED resolution:10V
- ❖ Waveshape of the discharge current:IEC61000-4-2

Basic Setup

- ❖ Mainframe: High voltage and controller
- ❖ ESD gun: Interchangeable tip
Air discharge
contact discharge
- ❖ Power cable
- ❖ Suitcase
- ❖ Instrumental manual



Technique support and service

- Three year warrant
- Free Training
- Free Standard GB/T 17626.2
- Free IEC61000-4-2 information
- Free consulting (NARTE certified ESD Engineer)

All these ESD802, support & service and the low purchase price are some of the reasons experienced test technicians and engineers applaud the EST802 as the best ESD Generator/simulator

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ESD Generator Model 802

(ESD Simulator)

(ESD gun)

1, Introduction

Electrostatic discharge (ESD) immunity test is one of the most important tests in the electromagnetic compatibility (EMC) tests. The International Electrical Committee (IEC) published IEC61000-4-2 (Chinese national standard GB17626.2) for ESD test of the electronic system testing.

The Model EST802 ESD Generator (ESD Simulator or ESD gun) can be continuous adjusted electrostatic discharge pulses voltage from 0 to $\pm 20\text{kV}$ in both air and contact discharge operations. Exceeding industry ESD test standards requiring pulse voltages of 8kv (contact)/15 kV(air). Basic model is supplied with 150 pF/330 ohm network in compliance with IEC/EN 61000-4-2, IEC 1000-4-2 and IEC 801-2 / 1991, and other optional extra discharge networks is available



The EST802 consists of an adjustable high voltage control unit and a hand-held pulse discharge gun (less than 500g, the world most Light weight gun) connected by a 4-ft cable. The control unit houses the low voltage power supply (24V) and both very precision (0.5%) positive and negative adjustable high voltage ($\pm 20\text{kV}/1\text{mA}$) power supply with high voltage LED display. Contact & air discharge voltage ranges from 0 to $\pm 20\text{kV}$, 3 1/2-digit LED readout, 10-volt resolution to 20kV. Pre setted 10 standard discharge voltage levels enable the user to quickly select the voltage from the standard test levels as the IE 6100-4-2 standard and air and contact discharge mode. Discharge Polarity can be alternated with the + o - switch at any time during the operation. It is the world most Light weight gun, It is comfortable ergonomics designed. Basic RC network is 330 ohm/150pf (HBM) (IEC61000-4-2 Std. GB17626.2) and Optional Custom RC networks available. EST802 can be applied to a wide range of test standards. Test in accordance with IEC, European, North American and China ESD/EMC simulation /Generation standards

Features

- Output voltage 0~±20KV
- 3 1/2-digit LED readout high accuracy and stability
- Polarity and discharge model can be alternated during the operation of test
- Pulse discharge waveform conformed with the IEC6100-4-2 standard
- Most light weight gun in the world,makes the test easy and comfortable ergonomics and avoid fatigue in the test
- Safety and reliability design makes it easy to use in many standard
- Selected discharge pulse single discharge, 1P/s,20P/s
- Preset 10 standard discharge voltage enabling the user to quickly select the voltage from the standard test levels as the IE 6100-4-2 standard and air and contact discharge mode
- A standard 3 years warranty applies to all most instruments, extended warranties are also available. , and guaranteed to meet manufacturers original specifications.
- All these and the low purchase price are some of the reasons experienced test technicians and engineers applaud the EST802 as the best ESD Generator/simulator available.

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- ❖ Holding time: more than 10s;
- ❖ discharge, mode of operation: single discharge, 1P/s, 20P/s
- ❖ Output voltage indicator: 3 1/2 LED, resolution:10V
- ❖ Waveshape of the discharge current:IEC61000-4-2



| Level | Indicated voltage kV | First peak current of discharge ±10 % A | Rise time t_r with discharge switch ns | Current (±30 %) at 30 ns A | Current (±30 %) at 60 ns A |
|-------|-------------------------|---|--|----------------------------------|----------------------------------|
| 1 | 2 | 7,5 | 0,7 to 1 | 4 | 2 |
| 2 | 4 | 15 | 0,7 to 1 | 8 | 4 |
| 3 | 6 | 22,5 | 0,7 to 1 | 12 | 6 |
| 4 | 8 | 30 | 0,7 to 1 | 16 | 8 |

Operation condition: Temperature: 10-95 F, Relative Humidity:20-80%, no dew, Air pressure 68-106kPa

Power supply: AC220V/50Hz /50VA Fuse: 2A

Dimension and weight: 28cm (L) x15cm (H) x35(D), about 9kg.

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