



Handheld ESD Simulator

EDS 20H

- IEC/EN 61000-4-2
- IEC/EN 61000-6-1
- IEC/EN 61000-6-2
- IEC/EN 61326
- IEC 61340-3-1
- ISO 14304
- GB/T 17626.2
- ITU-T K.20
- Bellcore GR-1089-Core

Features

- > Ergonomic design;
- > LCD touchscreen control;
- > Temperature and humidity recording and protection;
- > Automatic polarity switching;
- > Customized RC modules are available;
- > Built-in standard test program library;
- > Intelligent detection of air discharge failure;
- > Built-in battery pack, long-duration battery test support;
- > Max. test voltage 20 kV;
- > Equipped with two batteries;

Introduction

The EDS 20H is an intelligent electrostatic discharge (ESD) generator designed to meet the IEC 61000-4-2 testing standard, accurately simulating electrostatic discharge pulse up to 20 kV.

The EDS 20H features an ergonomic design and can be powered by either batteries or an AC adapter. Its user-friendly LCD touchscreen, and built-in temperature and humidity sensors ensure reliable performance across a wide range of testing environments.

Application Areas



Technical Parameters

Contact Discharge	1,000 V ~ 20,000 V (±5%)
Air Discharge	1,000 V ~ 20,000 V (±5%)
Voltage Step	100 V
Holding Time	> 5 s
Charging Resistor	51 MΩ
Polarity	+, -
RC Module Identification	Automatic identification and LCD display
Temperature and Humidity	Built-in thermo-hygrometer with record and protection functions
Frequency	Single, 0.1 Hz, 0.2 Hz, 0.5 Hz, 1 Hz, 2 Hz, 5 Hz, 10 Hz and 20 Hz
Trigger Mode	Automatic, manual
Counter	1~9,999
Contact Discharge Mode	150 pF/ 330 Ω
Rise Time	0.8 ns ± 25%

General Parameters

Weight	Approx. 8.5 kg
Weight (ESD Gun)	Approx. 1.8 kg
Operation Power Supply	100 V ~ 240 V (±10%); 50/ 60 Hz
Ambient Temperature	5°C ~ 40°C
Relative Humidity	30% ~ 60%
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard Accessories

1	Battery Module	Model: EDS 20H-BAT 6* 2,600 mAh Ni-MH rechargeable battery	
2	Power Adapter	Model: EDS 20H-ACDC Can replace battery module	
3	RC Module	Model: 20C150R330, 150 pF/ 330 Ω	
4	Discharge Tip	Model: EDS 20H-CONT Contact discharge tip	
5	Discharge Tip	Model: EDS 20H-AIR Air discharge tip	
6	Grounding Cable	2 m	
7	Package	Carrying case	
8	Factory Report		
9	User Manual		

Optional Accessories

1	RC Module	150 pF/2,000 Ω (EDS) 330 pF/2,000 Ω (EDS) 330 pF/330 Ω (EDS) 100 pF/1,500 Ω (EDS) 150 pF/150 Ω (EDS) 500 pF/500 Ω (EDS) 500 pF/5,000 Ω (EDS) 200 pF/0 Ω (EDS) 500 pF/0 Ω (EDS) 500 pF/100 Ω (EDS) Can be customized upon request	
2	Electrostatic Discharge Test Setup	Model: ESDD Grounding high voltage resistor: 2 x 470 k Ω VCP: 500 x 500 mm HCP: 1,600 x 800 mm GRP: 2,700 x 1,800 mm Standard: IEC 61000-4-2	
3	ESD Calibration Kit	Model: EDS CALA Used for waveform calibration of IEC / EN 61000-4-2, including 2 Ω target / 4 GHz coaxial cable, user manual	
4	Attenuator	Model: JZ602 Impedance: 50 Ω Attenuation: 20 dB	
5	Attenuator	Model: JZ603 Impedance: 50 Ω Attenuation: 30 dB	
6	PC Communication	Model: EDS - REMOTE Supply with fiber optic cable (Model: HFBR4503-4513, length 10 m)	
7	PC software	Model: CoreLab > Compatible with Windows 7/8/10 operating systems > Supports Ethernet and serial communication modes > Supports parameter scheduling, test sequences, and one-click testing for easy operation > Allows configuration of customer information, automatically generates test reports, and supports report export, making it convenient for users to record real-time data	

SUZHOU 3CTEST ELECTRONIC CO., LTD.

Address: No. 99 E'meishan Road, SND, Suzhou, Jiangsu Province, China

E-mail: globalsales@3ctest.cn

Service: service@3ctest.cn

Tel: +86 - 512 - 68077192

Web: www.3ctest.com



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