

Electrostatic Discharge Simulator

EDS MAX30



- ISO 10605
- ISO 14304
- IEC 61000-4-2
- IEC/EN 61000-6-1
- IEC/EN 61000-6-2
- IEC/EN 61326
- IEC 61340-3-1
- ITU-T K.20

Features

- > 3.5" HD color screen;
- > Test voltage up to 30 kV;
- > Exquisite ergonomic design and UI design;
- > Built-in 3 test modes: standard test, sequence test and easy test;
- > Changeable discharge tip;
- > Support remote control via optical fiber communication;
- > Built-in battery pack.



Introduction

The EDS MAX30 is 3CTEST's fourth-generation electrostatic discharge simulator in compliance with IEC 61000 - 4 - 2 : 2025, ISO 10605 and other standards. This new product has a test voltage up to 30 kV and features 3.5 - inch high-definition color screen, along with compact mechanical design, intuitive UI design, lightweight, and impeccable waveforms....

With three test modes designed in this equipment, the EDS MAX30 offers customers convenient operation tailored to their specific testing requirement, catering not only to research and development stage but also to quality check stage.

Application Areas







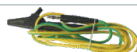



Technical Parameters

Test Voltage	0.2 kV - 30 kV \pm 5 %
Voltage Step	100 V
Polarity	+, -, +/-
Holding Time	5 s - 10 s
Discharge Tip	Air discharge tip and contact discharge tip
RC module	IEC 61000-4-2: 150 pF / 330 ohm, ISO 10605: 150 pF / 330 ohm, 330 pF / 330 ohm, 150 pF / 2000 ohm, 330 pF / 2000 ohm
RC Module Identification	Automatic identification and display
Control Mode	Touch screen, trigger button, optical fiber remote control
Frequency	Single, 0.1Hz, 0.2Hz, 0.5Hz, 1Hz, 2Hz, 5Hz, 10Hz and 20Hz
Trigger Mode	Automatic, manual
Counter	1 - 9,999
Sequence Test	Up to 4 sequence levels
Counter	Counting happens upon tips voltage lowered than setting voltage thresholds
Voltage Thresholds	50%, 60%, 70%, 80%, 90%
Temperature and Humidity	Built-in temperature and humidity meter, serving as real-time test environment record and protection function.
Battery Parameters	
Battery Type	Lithium battery
Battery Group Voltage	3*3.7 V
Battery Capacity	27 Wh
Battery Life	4 h @ contact discharge 30 kV, 1 Hz, first positive and then negative 6 h @ contact discharge 8 kV, 1Hz, first positive and then negative
Power Supply for Battery Charger	100 V - 240 V, 50 - 60 Hz
Battery Charge Time	Approx. 4 h
Service Life	300 times > 80%


General Parameters

Display Screen	3.5 inches color screen
Language	English, Chinese
Auto Power OFF Function	Power off automatically upon no operations: 5 min / 10 min / 15 min / 30 min / never
Screen Brightness	0 - 100%
Lock Screen	Lock screen upon no operation: 5 min / 10 min / 15 min / 30 min / never
Memory	latest 4 groups testing parameters
Communication mode	Optical fiber
Grounded Port	4mm banana plug
Power Supply	Input: 100 - 250 V / 50 - 60 Hz, with built-in battery pack
Dimension	Gun : 285 * 85 * 245 mm
	Base Station: 303 mm * 205 mm * 148 mm
Weight	Approx. 7.35 kg
Ambient Temperature	15 °C - 35 °C
Relative Humidity	30% - 75% (no condensation)
Atmospheric Pressure	86 kPa - 106 kPa



Standard Accessories

1	RC module 150 pF / 330 ohm	Model: 30C150R330	
2	Insulated casing gun head module	Model: EDS MAX30 - TM330	
3	Air discharge tip	Model: EDS MAX20 - AirTip	
4	Contact discharge tip	Model: EDS MAX20 - ConTip	
5	Grounding line	Model:CPK.FJ.X.CSXO - 0200 - 0001	
6	Base support	Model: EDS MAX-BASE	
7	Electrostatic suitcase	Size : 420 mm × 350 mm × 185 mm	
8	Factory report		
9	User Manual		

Optional Accessories

1	RC module	Model	
	100 pF / 1500 ohm	30C100R1500	
	150 pF / 2000 ohm	30C150R2000	
	150 pF / 150 ohm	30C150R150	
	200 pF / 0 ohm	30C200R0	
	330 pF / 330 ohm	30C330R330	
	330 pF / 2000 ohm	30C330R2000	
	500 pF / 500 ohm	30C500R500	
	500 pF / 5000 ohm	30C500R5000	
	500 pF / 0 ohm	30C500R0	
	500 pF / 100 ohm	30C500R100	
	Customizable discharge modules according to user needs		
2	Insulated casing gun head module	Model: EDS MAX30 - TM2000	

Optional Accessories

3	Air discharge tip 30 mm	Model: EDS MAX30 - AirTip 30 mm	
4	Electrostatic discharge test configuration	Model: ESDD Following items can be purchased seperately: Vertical coupling plate: 500 * 500 * 3 mm (model: ESD - DZ) Grounding high voltage resistance: 2 * 470 kohm (model: ES470)	
5	ESD calibration device	Model: ESD - CALA Used for waveform calibration of IEC/EN 61000-4-2, including 2 ohm target/4 GHz, coaxial cable, user manual	
6	Attenuator	Model: JZ602 Impedance: 50 ohm Attenuation: 20 dB	
7	Attenuator	Model: JZ603 Impedance: 50 ohm Attenuation: 30 dB	
8	Control software	Model: CoreLab For remote control With test sequence and test report generation functions etc.	
9	PC Communication	Model: EDS - REMOTE Fiber optic to USB converter	

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