



Electrostatic Discharge Simulator

EDS 30T

- IEC 61000-4-2
- IEC 61000-6-1
- IEC 61000-6-2
- IEC 61326
- ITU-T K.20
- Bellcore GR-1089-Core
- RTCA DO-160 Section 25
- MIL-STD-461G CS118
- GB/T 17626.2

Features

- > Ergonomic design
- > LCD touchscreen control
- > Temperature and humidity recording and protection
- > Automatic polarity switching
- > Replaceable RC module with automatic identification
- > Built-in standard test program library
- > Intelligent detection of air discharge failure
- > Max. test voltage 30 kV

Introduction

The EDS 30T is an intelligent electrostatic discharge (ESD) simulator designed to meet the IEC 61000-4-2 testing standard, accurately simulating electrostatic discharge pulse up to 30 kV.

The EDS 30T features an ergonomic design and replaceable RC modules 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	200 V ~ 30,000 V (±5%)
Air Discharge	200 V ~ 30,000 V (±5%)
Voltage Step	100 V
Charging Resistor	51 MΩ
Holding Time	> 5 s
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 RC Mode	150 pF/ 330 Ω
Rise Time	0.8 ± 25%

General Parameters

Weight	Approx. 12.0 kg
Weight (ESD Gun)	Approx. 2.0 kg
Ambient Temperature	5°C ~ 40°C
Relative Humidity	20% ~ 80%
Atmospheric Pressure	86 kPa ~ 106 kPa
Operation Power Supply	100 V ~ 240 V, ±10% 50/ 60 Hz

Standard Accessories

1	RC Module	Model: EDS 30T-RC 150 pF/ 330 Ω RC module is replaceable.	
2	Contact Discharge Tip	Model: EDS 30T-CONT (330 Ω)	
3	Air Discharge Tip	Model: EDS 30T-AIR	
4	Grounding Wire	2 m	
5	Package	Carrying case	
6	Factory Report		
7	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	Discharge Tip	Model: EDS 30T-AIR (30 mm) For tests from 15 kV to 30 kV	
3	Battery Pack	Model: EDS01 8 x 2,600 mAh Ni-MH rechargeable batteries alternative to AC power Operating time: 8h (+30 kV, 1 Hz) Dimension: 140 mm*100 mm*35 mm Weight: 0.5 kg	
4	Battery Charger	Model: ACS310 For charging battery pack	
5	PC Communication	Model: EDS-REMOTE Fiber optic to USB converter	
6	Fiber Optical Cable	Model: HFBR4503-4513 Used with EDS-REMOTE to enable remote control of the instrument via PC software. Cable length: 10 m.	
7	Control software	Model: CoreLab For remote control with test sequence and test report generation functions etc.	
8	Electrostatic Discharge Test Setup	Model: ESDD VCP (ESD-DZ): 500*500*3 mm HCP (ESD-DZ): 1,600*800*2 mm GRP (ESD-CD): 2,700*1,800*2 mm Insulating mat: 1,600 *800 *0.5 mm Discharge cable: ES 470-1.4 (1.4 m) ES 470-1.7 (1.7 m)	
9	EDS Calibration Fixture	Model: ESDD-D Note: Complies with IEC 61000-4-2:2025	
10	Electrostatic Dissipative Mat	Model: ESD-DM Resistance: $10^8 \Omega$ /square Dimension: 1,000 mm*1,000 mm*2.5 mm	

Optional Accessories

11	Insulating Mat	Dimensions: 2,000 mm*1,000 mm*2 mm	
12	ESD calibration device	Model: ESD-CALA Used for waveform calibration of IEC / EN 61000-4-2, including 2Ω target, 1 m coaxial cable	
13	Attenuator	Model: JZ602 Impedance: 50 Ω Attenuation: 20 dB	
14	Attenuator	Model: JZ603 Impedance: 50 Ω Attenuation: 30 dB	
15	High Voltage Divider	Model: EDS-HVM30 Used to measure the output voltage of the EDS in air discharge mode. Test Voltage: Max. 30 kV Impedance: 20 GΩ // 3 pF Attenuation Ratio: 20651:1 (Reference Value)	

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