

Electrostatic Discharge Simulator

EDS 30V



As per standards

- > ISO 10605:2001
- > GB/T 19951-2005

Summary

The static electricity between human body and an object or between two objects sometimes can be up to tens of thousands of volts, which may cause electrical and electronic equipments circuit malfunction or even damage. EDS 30V is a most advanced intelligent electrostatic discharge generator, the output voltage 30kV, it is also China's first independent research and development product with collection discharge tip and touch screen control in an electrostatic discharge simulator, in accordance with ISO 10605 and GB/T 19951 standards. LCD touch screen is simple and easy to operate, RC module can be replaced, the built-in temperature hygrometer, remote control software, to ensure the reliability of all kinds of tests.

Feature

- > Ergonomic design
- > LCD touch screen control
- > Temperature and humidity record and protection
- > Automatic polarity switching over
- > Discharge modules can be replaced, automatic identification
- > Built-in standard test library
- > Intelligent detection the failure of air discharge

Application area

- > Communication
- > Information technology
- > Telecom
- > Military
- > Medical
- > Aviation
- > Broadcast and TV
- > New energy and power
- > Railway

Technical parameters	
Contact discharge	200V – 30,000V +/-5%
Air discharge	200V – 30,000V +/-5%
Voltage step	100V
Holding time	> 5s
Polarity	+/-
RC module recognition	Automatic recognition and LCD display
Temperature and humidity	Built-in temperature and humidity meter with record and protection function
Pulse repetition rate	single/0.1/0.2/0.5/1/2/5/10/20Hz
Trigger mode	manual& auto
Pulse counting	1-9999
Discharge module	330PF/2000Ω; 150PF/2000Ω
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Summary procedure	Test as per standard level
Rising time	0.7-1.0ns
Quick start test program	Simple and easy to reset data online
Evaluate procedure	Contact discharge test at 20Hz, evaluate the test points of DUT
Standard Test Procedure	ISO 10605

General parameters	
Weight	Approx.11kg
Environment temperature	15-35°C (operating conditions)
Relative humidity	30%-60% (operating conditions)
Air pressure	86kPa-106kPa
Working power supply	100V-240V +/-10% 50/60Hz

Options	
DMX	Customized discharge module
Grounding high voltage resistor	2x470 kohm
Vertical coupling plane	500 x 500mm
Horizontal coupling plane	1600 x 80mm
Grounding reference plane	2700 x 1800mm
Test table	1600 x800 x800mm, fully wooden, as per IEC 61000-4-2
Battery box	8*2600mAh Ni-MH charging battery, around 8h for contact discharge +30kV, 1Hz, size 140mm x100mm x35mm.weight 0.5kg
Battery charger	Used for charging
ESD calibration set	Used for calibration waveforms as per ISO 10605, including 2 ohm target/4GHz, attenuator, coaxial cable and user manual

Standard equipped	
Discharge gun	Discharge gun and control 1PC
High voltage generator	High voltage power supply with programmable control 1PC
Standard RC module	330PF/2000Ω; 150PF/2000Ω; 330PF/330Ω 150PF/330Ω Discharge modules can be replaced
Discharge tip	Air discharge tip, contact discharge tip
Grounding wire	2m
Package	Suitcase
Documents	Factory calibration report and user manual



SUZHOU 3CTEST ELECTRONIC CO., LTD

Headquarter

Unit 2, Anda Industrial park, Jinshan Rd, SND, Suzhou,
215011, China
Tel: +86-512-68413700/3800/3900
Fax: +86-512-68079795
http://www.3ctest.cn
Email: info@3ctest.cn

BEIJING OFFICE

Room D 206, D block, Keshi Building, No.28, Shangdixinx
Road, Haidian District, Beijing, China
Tel: +86-010-82899984/82899948
Fax: +86-010-82899943

CHENGDU OFFICE

Room 1501, Unit 3, Ideal Centre, No.38 Tianyi Street, SND,
6100085, Chengdu, China
Tel: +86-028-85327800
Fax: +86-028-85311400

SHENZHEN OFFICE

Room 805, Huawen Building, Xili Chaguang Road, Nanshan
District, Shenzhen, China.
Tel: +86-755-86626625/86344313
Fax: +86-755-26966255

Xi'an Office

Add.: Room 2204, Visa Yinghai Building, Green land Central
Plaza, Jinye Road, Crossig of Zhangbasan Road, High-tech
district, Xi'an city, China.
Tel: +86-029-68985077/68985700
Fax: +86-029-68717677



TAIWAN OFFICE

RICHTEC INSTRUMENTS CO., LTD
6F-5, No.130, Ln.235, Baoqiao Rd, Xindian District, New
Taipei City, 23145, Taiwan
Tel: +886-2-89121185 Fax: +886-2-89121812
Email: rich.tec@msa.hinet.net
http://www.richtec.com.tw



TESTEK Co.,LTD

Address: 601Ho, SungwoonKoa, 141 Hyeonam-ro,
Suji-Gu, Yongin-Si, Gyeonggi-Do, 448-808
Tel: 070-4099-2072/H.P : 010-6500-6648
Email: woo@testek.co.kr
http://www.testek.co.kr, www.3ctest.co.kr



Quantel Pte Ltd

Address: 46 Lorong 17 Geylang #05-02
Enterprise Industrial Building
Singapore 388568
Tel: +65 6745 3200
Email: info@quantel-global.com
https://www.quantel-global.com



European Agency

Europe: AR Europe
Yvonne McGlinchey
ymcglinchey@ARWorld.US
+353 61 504300
Address: First Floor Ashling Building, National Technology
Park, Limerick, Ireland