

## Electrostatic Discharge Simulator

## EDS 30V

### Datasheet



#### In Compliance with

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

#### Introduction

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.

#### Features

- > 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 Areas

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

Technical parameters	
Contact discharge	200 V – 30,000 V +/-5%
Air discharge	200 V – 30,000 V +/-5%
Voltage step	100 V
Holding time	> 5 s
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/0.1/0.2/0.5/1/2/5/10/20 Hz
Trigger mode	manual& auto
Pulse counting	1-9999
Discharge module	330 pF / 2000 $\Omega$ ; 150 pF / 2000 $\Omega$
	330 pF / 330 $\Omega$ ; 150 pF / 330 $\Omega$
Summary procedure	Test as per standard level
Rising time	0.7-1.0 ns
Quick start test program	Simple and easy to reset data online
Evaluate procedure	Contact discharge test at 20 Hz, evaluate the test points of DUT
Standard Test Procedure	ISO 10605

General parameters	
Weight	Approx.12.0 kg
Weight (EDS gun)	Approx.2.0 kg
Environment temperature	15 $^{\circ}$ C - 35 $^{\circ}$ C (operating conditions)
Relative humidity	30%-60% (operating conditions)
Air pressure	86 kPa-106 kPa
Working power supply	100 V - 240 V +/-10% 50/60 Hz

Options	
DMX	Customized discharge module
Grounding high voltage resistor	2x470 kohm
Vertical coupling plane	500 x 500 mm
Horizontal coupling plane	1600 x 80 mm
Grounding reference plane	2700 x 1800 mm
Test table	1600 x800 x800 mm, fully wooden, as per IEC 61000-4-2
Battery box	8*2600 mAh Ni-MH charging battery, around 8h for contact discharge +30 kV, 1 Hz, size 140 mm x100 mm x35 mm. weight 0.5 kg
Battery charger	Used for charging
ESD calibration set	Used for calibration waveforms as per ISO 10605, including 2 ohm target/4 GHz, attenuator, coaxial cable and user manual

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



### **MAINLAND CHINA**

SUZHOU 3CTEST ELECTRONIC CO., LTD.  
Add.: No. 99 Emeishan Rd, SND, Suzhou 215153,  
Tel: +86 (0)512 6807 7192  
Fax: +86-512-68079795  
Email: [globalsales@3ctest.cn](mailto:globalsales@3ctest.cn)  
[www.3c-test.com](http://www.3c-test.com)

### **TAIWAN**

RICHTEC INSTRUMENTS CO., LTD.  
Add.: 6F.-5, No.130, Ln. 235, Baoqiao Rd., Xindian  
Dist., New Taipei City 23145, Taiwan, China  
Tel: +886 2 8912 1185 #10  
Email: [ryan@richtec.com.tw](mailto:ryan@richtec.com.tw)  
[www.richtec.com.tw](http://www.richtec.com.tw)

### **SOUTH KOREA**

TESTEK Co., LTD.  
Add.: 601Ho, SungwoonKoa, 141 Hyeonam-ro,  
Suji-Gu, Yongin-Si, Gyeonggi-Do, South Korea.  
Tel: +82 70 4099 2071,  
E-mail: [woo@testek.co.kr](mailto:woo@testek.co.kr)  
[www.testek.co.kr](http://www.testek.co.kr)

### **SINGAPORE**

QUANTEL PTE LTD.  
Add.: 25 Kallang Ave, #05-02, 339416, Singapore  
Tel: +65 6745 3200  
Email: [engtat.ong@sg.quantel-global.com](mailto:engtat.ong@sg.quantel-global.com)  
[www.quantel-global.com](http://www.quantel-global.com)

### **USA**

THE EMC SHOP  
Add.: 7401 Galilee Rd. #160, Roseville, CA 95678,  
USA  
Tel: +1 844 423 7435  
Email: [brendon.berg@theemcshop.com](mailto:brendon.berg@theemcshop.com)  
[www.theemcshop.com](http://www.theemcshop.com)

### **RUSSIA**

CDIP LLC  
Add.: Room 7, Building 5, House 69, Ryabinovaya  
Street, Moscow 121471, Russia  
Tel: +7 (495) 956 20 22  
Email: [info@cdip.ru](mailto:info@cdip.ru)  
[www.cdip.ru](http://www.cdip.ru)