

## Hand-held Electrostatic Discharge Simulator

## EDS 20H



### As per

- > IEC 61000-4-2
- > IEC 61000-4-29
- > IEC 61340-3-1
- > IEC/ EN 61000-6-2
- > IEC/EN 61000-6-1
- > IEC/EN 61326
- > GB/T 17626.2
- > ISO 14304
- > Bellcore GR-1089-Core
- > ITU-T K.20

### Description

The EDS20H is a state of the art electrostatic discharge simulator available in 18KV. It is the most ergonomic ESD gun without an additional base control unit. It can be operated via battery or mains. The easy to use touch screen, ergonomic design, modular R/C units, remote control software, built-in LED light and temperature and humidity display allows a trouble-free use in all types of test sites.

### Features

- > Ergonomic design
- > LCD touch screen
- > All-in-one design (no base unit)
- > Changeable R/C networks
- > Automatic polarity switching
- > Battery or mains operation, long battery life
- > Temperature and humidity monitoring

### Industries

- > Communication
- > Telecom
- > Medical
- > Broadcast
- > Railway
- > IT
- > Military
- > Avionics
- > New energy

Technical Data	
Contact discharge	1000V – 18,000V +/-5%
Air discharge	1000V – 18,000V +/-5%
Voltage step	100V
Hold time	>5s
Polarity	Positive, negative
RC module	LCD display
Humidity & Temperature	Internal hygrothermograph, record and protect
Repetition frequency	Single /0.1/0.2/0.5/1/2/5/10/20Hz
Trigger mode	Manual/automatic
Pulse	1-9999
Manual control	via touch screen
Remote control	via fiber optical connector by PC
Output	
Contact discharge	as per IEC/EN 61000-4-2
	150pF/330Ω
Rise time	0.8ns +/- 25%
First peak current	7.5A ±15% @2kV
	15.0A ±15% @4kV
	22.5A ±15% @6kV
	30.0A ±15% @8kV
Current value at 30ns	4.0A ±30% @2kV
	8.0A ±30% @4kV
	12.0A ±30% @6kV
	16.0A ±30% @8kV
Current value at 60ns	2.0A ±30% @2kV
	4.0A ±30% @4kV
	6.0A ±30% @6kV
	8.0A ±30% @8kV

Power Supply	
Battery powered	18kV contact discharge, 1HZ, discharge 20H
	Automatically switch off after no operation for more than 10min.
	Standby time more than 30h
Battery type	NIMH
Charger	Powered via MAD adapter
Adaptor	Replace the battery in continuous test
Test program	
Summary procedure	Test according to different standards
Quick start	Simple and easy to reset data on line
Evaluation procedure	Contact discharge test at 20Hz
	Evaluate the test points of DUT
Standards	Comply with EN/IEC 61000-4-2 and EN 61000-6-1/-6-2
Setup	Parameters and standards level
General Data	
Weight	1700 gram (battery included)
Material	ABS plastic
Temperature	5°C - 40°C
Humidity	20 – 80%
Mains	100V-240V +/-10%, 50/60Hz

Optional Accessories	
DM1-RFCI	150pF/330 ohm
	Fast relay discharge module
	Rise time 200ps-300ps
DM2	150pF/2000 ohm (ISO 10605)
DM5	330pF/2000 ohm (ISO 10605)
DM6	330pF/330 ohm (ISO 10605)
DM7	100pF/1500 ohm
DM8	150pF/150 ohm
DM9	500pF/500 ohm
DM10	500pF/5000 ohm
DMx	Customized discharge module
esd.control	Software for remote-control and report generation
	Fiber optic interface
Grounding HV resistance	2 x 470 kohm
Vertical coupling plane	50cm x50cm
Horizontal coupling plane	1600cm x80cm
Reference ground	2700cm x1800cm
Test table	1.6 x0.8m, solid wood
Fiber optic interface	USB
	The cable of 3m or 6m
	Max. baud rate: 19,200
Mains adapter	Replace the battery in continuous test
ESD Calibration set	To calibrate the waveform of IEC/EN61000-4-2, including 2 ohm target, 4GHz attenuator, coaxial cable and use manual.

Accessories	
R/C module	150pF/330 ohm discharging module, renewable
Discharging pole	Air discharging tip, contact discharging tip
Battery type	NIMH
Grounding line	2m
Package	suitcase
Documents	Manual and test report
Charger	Powered via MAD adapter
Adaptor	Replace the battery in continuous test



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