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Specification



dito

Electrostatic Discharge Simulator

- IEC/EN 61000-4-2
- ISO 10605
- and related standards

dito represents a new generation of ESD simulators. It looks completely different from any ESD gun available on the market, ergonomically designed and light weighted.

It generates ESD pulses as per IEC/EN 61000-4-2 up to 16.5kV in air discharge and 10kV in contact discharge. Discharge circuits and discharge tips are exchangeable to easily adopt other test requirements. dito includes pre-programmed standard test routines for easy, fast and reliable testing.



Test Level	
Test voltage selectable for contact discharge	500V – 10,000V ± 5%
for air discharge	500V – 16,500V ± 5%
Resolution	100V steps
Holding time (AD)	> 5s
Polarity	Positive, negative
Test voltage measurement	in the display

Trigger	
Single pulse (Single)	Release of a single pulse
Multiple pulses (Continuous)	Continuous discharge up to 20Hz (AD) and 10Hz (CD)
Pulse release by software	Remote control via fiber optic link from computer (RS232)

Output	
Contact Discharge Pulse	As per IEC/EN 61000-4-2; 150pF/330ohm
Rise time	0.7ns – 1.0ns
First peak current value	7.5A ± 10% @2kV 15.0A ± 10% @4kV 22.5A ± 10% @6kV 30.0A ± 10% @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

Test Routines	
Easy Zap	Immediate test start for standard levels
Quick Zap	The test parameters are adjustable during the running test; fast and easy to use
Evaluation (AD with 20Hz)	To evaluate for test points on the DUT
Standard Test Routines	IEC/EN 61000-4-2, Level 1 – Level 4 EN 61000-3-11-6-2 Specification of the test plan, including test points and test reporting with ditoControl
Setup	Parameters, standard levels, etc.

Display and Controls	
Display	LCD graphic display; 128 x 64 pixels
Function keys	5 function keys, 2 cursor keys, trigger key

Operation	
Manual	Via function keys
Remote control	Using ditoControl; via built-in fiber optic interface

Voltage Supply	
Battery	more than 50,000 pulses @16.5kV; automatic power-off after 10 minutes if not in operation
Mains supply	via MAD mains supply adapter

General Data	
Weight	940g incl. battery
Case material	ABS; highly inflammable as per UL94VO
Ambient temperature	5°C – 40°C (operation conditions)
Relative humidity	20% – 80% (operation conditions)
Battery charger	100V – 240V ± 10%; 50/60Hz Charging time < 1.5h

Accessories (included)	
DM1	150pF/330ohm discharge circuit with built-in relay for contact discharge
ACCU	Discharge tips for AD and CD
ADR	exchangeable battery
	Battery charger
	Transport case
	Grounding lead 2m
	Test certificate and instruction manual

Options (not included)	
DM2	Discharge module 150pF/2000ohm
DM3	Discharge module 330pF/2000ohm
DM4	Discharge module 100pF/1500ohm
DMx	Customer specific discharge module
MAD	Power Mains adapter
ditoControl	Software incl. fiber optiv interface IFA
PRT	Test table (wood) 2m x 0.9m x 0.8m with integrated horizontal coupling plane
VCP	Vertical coupling plane
EAS30	Grounding resistors 2 x 470kohm
ESD MAG	Magnetic field probe

Technical data subject to change without notice.