



## dito ESD Simulator

### The ultimate 16 kV ESD tester

Electrostatic discharges either from a human body to any other part or between two different objects can cause persistent disturbances or even destruction to sensitive electronics or controls. Voltages of several 1'000 volts are generated.

The dito is the most advanced ESD tester to simulate ESD pulses as per EN/IEC 61000-4-2 and other standards requirements.

With less than 900 grams weight, the EM Test dito is the lightest esd tester available on the market.

The display is clearly structured. The key pad consists of seven operating buttons allow simple menu control.

There are different test menus available. For compliant testing to required test levels can be called up in the test menu. Test routines also allow the user to customise and file certain testing.

Using the dito power pack, more than 70'000 discharges at 16.5 kV can be carried out, without recharging. Alternatively, also an optional mains adapter is available. Different standard testing might require other RC values of the discharge network.

The esd.control software tool includes a large library of international and manufacturer esd test standards. Using a fibre optical cable, the desired test standards can be uploaded and stored at the dito. Up to eight different test routines can be stored at the same time.

The software also allows you to generate a test report of the performed testing.

### MAIN FEATURES

- Most ergonomic design
- Light weight (870g)
- Interchangeable discharge tips
- Interchangeable R/C networks
- LiFePO4 power booster to perform long duration tests
- Library of standard test routines
- Test voltage measurement and control
- Various test routines for testing and evaluation

### Scope of delivery

ESD simulator dito	Discharge module DM 1 150 pF / 330 Ω
Contact- and air discharge tip	Power Pack dito
Ground return cable	CU dito (battery charger)
Case	

**Specifications**

Parameter	Value
Discharge voltage	Contact discharge : 500 ... 10'000 V ± 5% (in 100 V steps) Air discharge: 500 ... 16'500 V ± 5% (in 100 V steps)
Frequency / repetition	0.5 ... 20 s (in 0.5 s steps) 1 ... 20 Hz (in 1 Hz steps), max 10Hz for CD
Polarity	positive / negative / alternating
Operation modes / trigger	single / continuous
Counter	up: 1 ... 30'000 down: 0 ... 999'999
Accuracy charging voltage	< ± 5 % (at discharge tip)
Holding time	> 5 s (charging voltage max. - 5 %)
Auto shut off	After 10 minutes idle time
Discharge tips	exchangable , ball and point as per IEC 61000-4-2
Operation local control	5 function keys, 2 cursor keys, 1 trigger
Operation remote control	software esd.control
Display	LCD graphic display
Power supply	LiFePO4 battery (1000mAh); > 70'000 discharges @ 16.5 kV
Weight	approx. 870 g (incl. battery)
Ambient conditions (operation)	+ 5 ... + 40 °C / 20 ... 80 % humidity (non condensing) / 860 ... 1060 mbar

**Accessories**

Power Pack dito	Rechargeble LiFePo4 (1000mAh)
CU dito	Charging unit for Power Pack dito LiFePO4, 100 ... 240 VAC / 50 ... 50 hz
MAD	Mains adapter for dito to supply directly from mains, 90 ... 264 VAC, 50 ... 60 Hz
DM 1	Discharge network 150 pF / 330 Ω
DM 1-RFCI	Discharge network 150 pF / 330 Ω with built-in relay, fast rise time 200 ... 300 ps
DM 2	Discharge network 150 pF / 2000 Ω
DM 3	Discharge network 330 pF / 2000 Ω
DM 4	Discharge network 100 pF / 1500 Ω
DM 5	Discharge network 330 pF / 330 Ω
DM 6	Discharge network 150 pF / 150 Ω
CTR 2	Calibration target 2 Ω
CTR 2-AD	Calibration adapter for CTR 2
EAS 30-xx	Grounding set 2x 470 kΩ / 0.8, 1.5, 2 m
VCP	Vertical coupling plane
esd.control	Remote control software for control and documentation
OptoLink	Opto to USB interface, 3m cable, for remote control