

DITO

ESD SIMULATOR



FOR TESTS ACCORDING TO ...

- › EN 61000-4-2
- › Fiat 9.90110
- › Ford WDR 00.00EA
- › IEC 61000-4-2
- › IEC 61326
- › ISO 10605
- › ITU-T K.20
- › ITU-T K.21
- › ITU-T K.45
- › JASO D001-94
- › Renault 36.00.400/B
- › Renault 36.00.400/C
- › Toyota TSC3500G
- › Toyota TSC3590G
- › Volvo EMC Requirements (1998)

DITO - THE ULTIMATE 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. dito is the most advanced ESD tester to simulate ESD pulses as per IEC 61000-4-2 and other standards requirements.

HIGHLIGHTS

- › **MOST ERGONOMIC DESIGN**
- › **LIGHT WEIGHT (940G)**
- › **INTERCHANGEABLE DISCHARGE TIPS**
- › **INTERCHANGEABLE R/C NETWORKS**
- › **POWER BOOSTER TO PERFORM LONG DURATION TESTS**
- › **LIBRARY OF STANDARD TEST ROUTINES**
- › **TEST VOLTAGE MEASUREMENT AND CONTROL**
- › **VARIOUS TEST ROUTINES FOR TESTING AND EVALUATION**

APPLICATION AREAS

- | | |
|--|---|
|  AUTOMOTIVE |  RESIDENTIAL |
|  INDUSTRY |  MILITARY |
|  MEDICAL |  AIRCRAFT |
|  BROADCAST |  COMPONENTS |
|  TELECOM | |

TECHNICAL DETAILS

TEST LEVELS

CD mode	500V - 10,000V +/-5%
AD mode	500V - 16,500V +/-5%
Resolution	100V steps
Holding time	More than 5 seconds
Polarity	Positive, negative
Test voltage	measured, indicated in the display

TRIGGER

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

OUTPUT

CD mode	IEC/EN 61000-4-2; 150pF/330ohm
Rise time	0.7ns - 1.0ns
Current 1st peak	7.5A +/- 10% @2kV 15.0A +/- 10% @4kV 22.5A +/- 10% @6kV 30.0A +/- 10% @8kV
Current at 30ns	4.0A +/- 10% @2kV 8.0A +/- 10% @4kV 12.0A +/- 10% @6kV 16.0A +/- 10% @8kV
Current at 60ns	2.0A +/- 10% @2kV 4.0A +/- 10% @4kV 6.0A +/- 10% @6kV 8.0A +/- 10% @8kV

TEST ROUTINES

Easy Zap	Test based on standard levels
Quick Zap	All test parameters are adjustable during test; fast and easy-to-use
Evaluation	Air discharge with 20Hz; for test point evaluation on the DUT
Standard Test routines	As per IEC/EN 61000-4-2, EN 61000-6-1/-6-2
Set-up	Parameters, standard levels, etc.

DISPLAY AND CONTROLS

Display	LCD graphic display; 128 x 64 pixels
Operation	5 function keys, 2 cursor keys, pulse trigger

OPERATION

Manual	Via function keys
Remote control	Via built-in optical interface

VOLTAGE SUPPLY

Battery (ACCU)	More than 50,000 pulses @ 16.5kV; automatic power-off after 10 minutes if not operated
Mains supply	Via mains supply adapter (MAD)

GENERAL DATA

Weight	940 grams incl. battery
Case material	ABS; non-inflammable as per UL 94VO
Temperature	5°C - 40°C (operation conditions)
Rel. humidity	20% - 80% (operation conditions)
Battery charger	100V - 240V +/-10%; 50/60Hz Charging time less than 1.5 hours

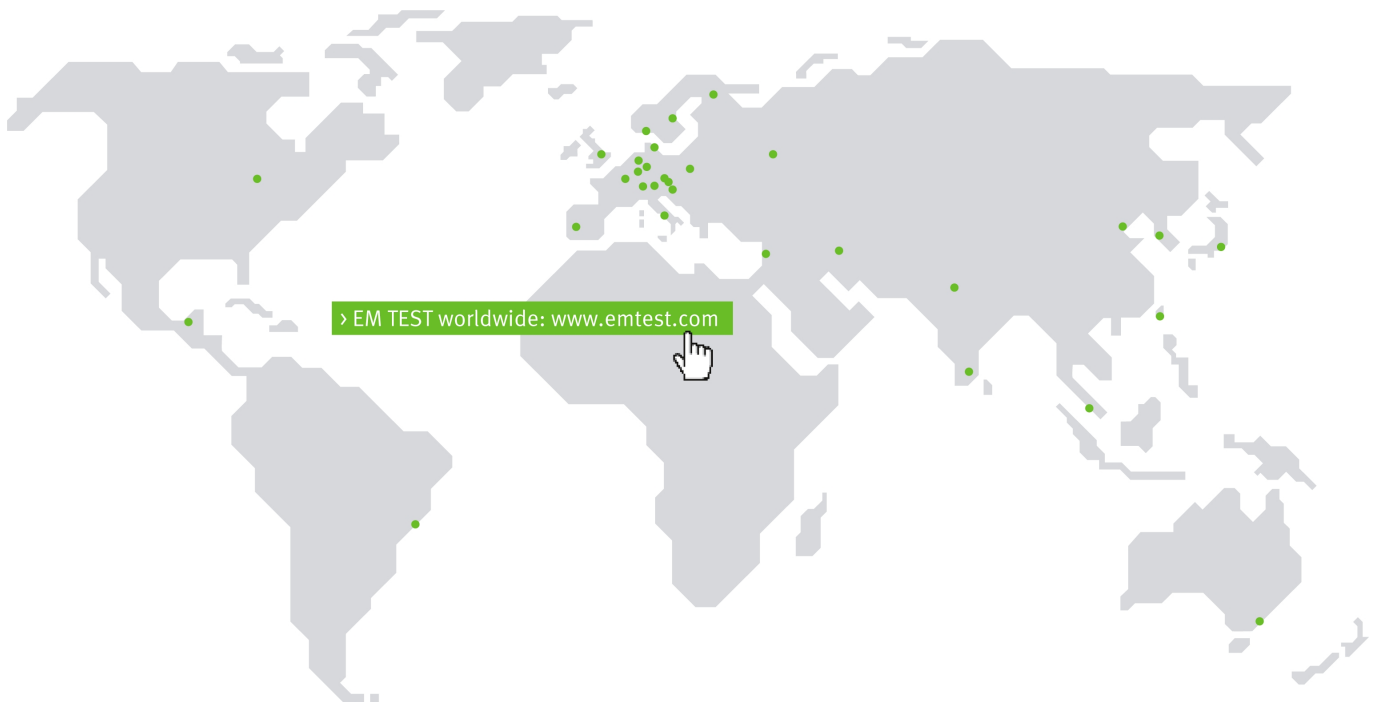
ACCESSORIES

DM1	150pF/330ohm discharge module with built-in contact discharge relay; Discharge tips for AD and CD
ACCU	Rechargeable battery
ACH	Battery charger
	Transportation case, grounding lead 2m, test certificate and operation manual

OPTIONAL ACCESSORIES

DM1-RFCI	Fast Relay Discharge module with 150pF/330ohm; Rise time 200ps - 300ps
DM2	Discharge module 150pF/2,000ohm
DM3	Discharge module 330pF/2,000ohm
DM4	Discharge module 100pF/1,500ohm
DMx	Customer specific discharge module
esd.control	Remote control and documentation software incl. optical interface IFA
VCP	Vertical coupling plane 50cm x 50cm, incl. EAS 30 grounding set 2x470kohm
EAS 30	Grounding set 2x470kohm
ESD MAG	Magnetic field probe

COMPETENCE WHEREVER YOU ARE



CONTACT EM TEST DIRECTLY

Switzerland

EM TEST AG › Sternenhofstraße 15 › 4153 Reinach › Switzerland
 Phone +41 (0)61/7179191 › Fax +41 (0)61/7179199
 Internet: www.emtest.ch › E-mail: sales@emtest.ch

Germany

EM TEST GmbH › Lünener Straße 211 › 59174 Kamen › Deutschland
 Phone +49 (0)2307/26070-0 › Fax +49 (0)2307/17050
 Internet: www.emtest.com › E-mail: info@emtest.de

France

EM TEST FRANCE › Le Trident - Parc des Collines › Immeuble B1 - Etage 3 ›
 36, rue Paul Cézanne › 68200 Mulhouse › France
 Phone +33 (0)389 31 23 50 › Fax +33 (0)389 31 23 55
 Internet: www.emtest.fr › E-mail: info@emtest.fr

P.R. China

EM TEST Representative Office Beijing › Rm 913, Leftbank ›
 No. 68 Bei Si Huan Xi Lu › Haidian District › Beijing 100080 › P.R. China
 Phone +86 (0)10 82 67 60 27 › Fax +86 (0)10 82 67 62 38
 Internet: www.emtest.com › E-mail: emtestbj@public.bta.net.cn

Malaysia

EM TEST (M) SDN BHD › Unit B2-6, Jalan Dataran SD2 › Dataran SD2, PJU9 ›
 Bandar Sri Damansara › 52200 Kuala Lumpur › Malaysia
 Phone +60 (03)62 73 22 01 › Fax +60 (03)62 74 22 01
 Internet: www.emtest.com › E-mail: sales@emtest.com.my

Poland

EM TEST Polska › ul. Lema 33, 26-613 Radom › Polska
 Phone +48 518 64 35 12 › E-mail: info.polska@emtest.de

Information about scope of delivery, visual design and technical data correspond with the state of development at time of release.
 Technical data subject to change without further notice.