

ESD 30C

ELECTROSTATIC DISCHARGE SIMULATOR



FOR TESTS ACCORDING TO ...

- > BMW 600 13.0 (Part 2)
- > BMW GS 95002 (1999)
- > DaimlerChrysler DC-10613
- > DaimlerChrysler DC-10614
- > Ford ES-XW7T-1A278-AB
- > Ford ES-XW7T-1A278-AC
- > GMW 3097
- > GMW 3097 (2001)
- > GMW 3100
- > GMW 3100 (2001)
- > IEC 61000-4-2
- > IEC 61326
- > ISO 10605
- > Mazda MES PW 67600
- > Mercedes AV EMV
- > Mitsubishi ES-X82010
- > Nissan 28401 NDS 02
- > Porsche
- > PSA B21 7110
- > Renault 36.00.808/--D
- > Renault 36.00.808/--E
- > Renault 36.00.808/--F
- > Renault 36.00.808/--G
- > SAE J1113-13
- > ...

ESD 30C - GENERATE ESD PULSES ABOVE IEC 61000-4-2 TEST LEVELS










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.

ESD 30C is an ESD tester to simulate ESD pulses at higher voltages up to 25kV in both air and contact discharge mode. It therefore satisfies requirements exceeding the IEC 61000-4-2 test levels and complies to automotive test applications.

HIGHLIGHTS

- > CONTACT DISCHARGE UP TO 25KV
- > AIR DISCHARGE UP TO 25KV
- > EASY-TO-CHANGE R/C-NETWORKS
- > INTERCHANGEABLE TIPS
- > EASY-TO-USE
- > 4-DIGIT COUNTER
- > EXTERNAL TRIGGER FUNCTION

APPLICATION AREAS

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

TECHNICAL DETAILS

TEST LEVEL

Test voltage	500V - 25,000V \pm 5% for contact discharge
	500V - 25,000V \pm 5% for air discharge
Resolution	100V steps
Holding time (AD)	More than 5s
Polarity	Positive, negative

TRIGGER

Single pulse	Release of a single pulse
Multiple pulses	Continuous discharge up to 20Hz
Counter	0 - 9,999 for discharge pre-selection

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 \pm 10% @2kV 15A \pm 10% @4kV 22.5A \pm 10% @6kV 30A \pm 10% @8kV
Current value at 30ns	4.0A \pm 30% @2kV 8.0A \pm 30% @4kV 12.0A \pm 30% @6kV 16.0A \pm 30% @8kV
Current value at 60ns	2.0A \pm 30% @2kV 4.0A \pm 30% @4kV 6.0A \pm 30% @6kV 8.0A \pm 30% @8kV

GENERAL

Weight ESD 30C	approx. 3kg
Weight P30C	approx. 900g
Supply voltage	115V/230V +10%/-15%, 50/60Hz
Fuses	2x 0.5A T

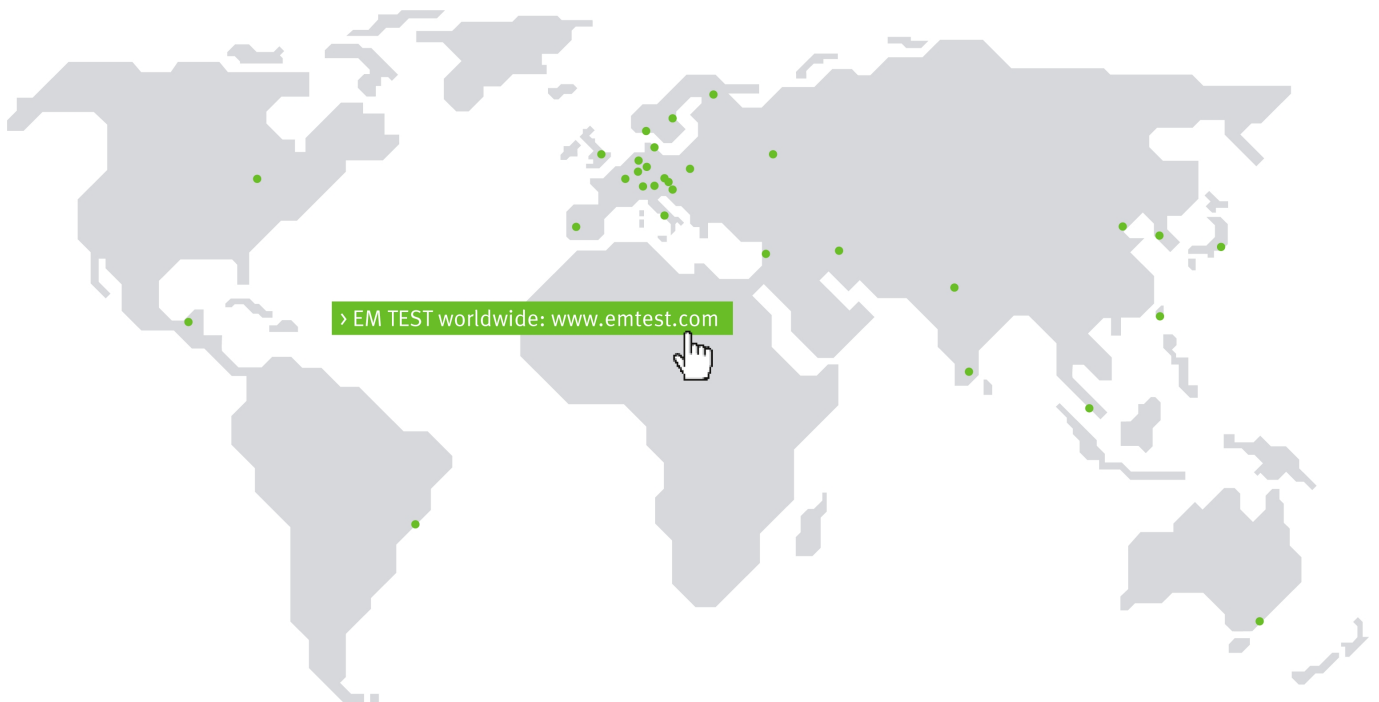
ACCESSORIES (INCLUDED)

	Discharge tips for AD and CD
	Grounding lead 2m
	Test certificate and instruction manual

OPTIONS (NOT INCLUDED)

RCM1	150pF/330 Ohm discharge network
RCM2	150pF/2000 Ohm discharge network
RCM3	330pF/2000 Ohm discharge network
RCM4	100pF/1500 Ohm discharge network
RCM5	330pF/330 Ohm discharge network
RCMx	Customer specific discharge network
ESDMAG	Magnetic Field probe for P30C
EE-P30C	30mm discharge electrode
VCP	Vertical coupling plane
EAS30	Grounding resistors 2 x 470kOhm

COMPETENCE WHEREEVER YOU ARE



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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.