

Specification



ESD 30C / P30C

Electrostatic Discharge Simulator

ESD 30C /P30C is a mains supply powered ESD simulator that generates ESD up to 25kV in both air discharge and contact discharge mode. The ESD 30C is manually operated. The P30C is designed that discharge networks can easily be exchanged to adopt this test equipment to standard requirements with different discharge circuits. To change between air and contact mode only the discharge tip needs to be changed. The relay for contact discharge is built-in to the P30C discharge unit and is controlled by the ESD 30C control unit.

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



ESD 30C / P30C Electrostatic Discharge Simulator

Test Level	
Test voltage selectable for contact discharge	500V – 25,000V ± 5%
for air discharge	500V – 25,000V ± 5%
Resolution	100V steps
Holding time (AD)	> 5s
Polarity	Positive, negative

Trigger	
Single pulse (Single)	Release of a single pulse
Multiple pulses (Continuous)	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 ± 10% @2kV 15A ± 10% @4kV 22.5A ± 10% @6kV 30A ± 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

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

Accessories (included)	
	Discharge tips for AD and CD
	Grounding lead 2m
	Test certificate and instruction manual

Options (not included)	
RCM1	150pF/330ohm discharge network
RCM2	150pF/2000ohm discharge network
RCM3	330pF/2000ohm discharge network
RCM4	100pF/1500ohm discharge network
RCM5	330pF/330ohm discharge network
RCMx	Customer specific discharge network
ESDMAG	Magnetic Field probe for P30C
EE-P30C	30mm discharge electrode
PRT	Test table (wood) 2m x 0.8m x 0.8m with integrated horizontal coupling plane
VCP	Vertical coupling plane
EAS30	Grounding resistors 2 x 470kohm

Technical data subject to change without notice.