

ESD Simulator Systems

NSG 431 - for static discharges up to 21kv

The **NSG 431** ESD Simulator generates electrostatic discharges of up to **21kv** in a defined and reproducible form. The instrument is modularly constructed so that the wide choice of networks can be easily interchanged. The instrument is hence suitable for testing for conformity with various standards. An extensive range of accessories accompanies the product.



- Fulfils standards such as IEC, ANSI-IEEE, VDE, NAMAR, MIL and SAE.
- H and E-field adapters.
- Relay unit (contact discharge adapter).
- Battery pack, mains power supply with preset counter.
- Standard and special discharge networks.

TECHNICAL DATA

Discharge voltage U_0	: 2kV to 21 kV \pm 10%	<u>Accessories (included):</u>
Rise Time	: 5 ns \pm 30% at 2kV	SL 402 194 Carrying case
Half amplitude width	: 30 ns \pm 30% at 2kV	SL 402 193 Fuse set
Polarity	: positive *	SL 402 170 Power supply
Discharge condenser C_0	: 150 pF * \pm 10%	SL 402 233 Test finger
Discharge resistance R_0	: 150 ohm * \pm 5%	SL 402 229 Distance set for test finger
Repetition frequency	: approx. 10Hz $U_c \cong 99\%$	SL 402 173 Ground connecting cable (2m)
Source resistance HV generator R_1	: 150 M Ω \pm 10%	
Hold time single	: 5s ($U_0 - 10\%$)	
Supply voltages	100/120/220/240 VAC \pm 10% 50/60Hz	
Power consumption	: approx. 25 VA	
Temperature range	: 5 - 40°C	
Humidity	: 20% - 80% (not condensing)	
Suppression level	: N (according to VDE 0875)	
<u>Dimensions:</u>		
Test finger	: \emptyset 12x80 mm \emptyset 0.47x3.15"	
Generator	: 260x300x56 mm 10.23"x11.81"x2.20"	
Power supply	: 160x91x56 mm 6.3"x3.58"x2.20"	
Ground cable	: approx. 2m 78.75"	
Carrying case	: 520x375x125 mm 20.47"x14.76"x4.92"	
<u>Weight:</u>		
Generator	: approx. 1.2kg 2.65 lb	
Power supply	: approx. 1.1kg 2.43 lb	

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