



NSG 435 15 kV ESD Simulator

The ergonomic pistol-shaped NSG 435 esd-simulator is designed to sit comfortably in the operator's hand, with current operating conditions constantly displayed and clearly visible.

The multifunction keypad provides the operator with instant access to its comprehensive range of built-in functions. The LCD panel continuously displays the operating status and all user-selected test parameter

NSG 435 has its own internal, battery operated high voltage generator. In addition to the pre-programmed, standard IEC pulses, the user can create custom tests using single or repetitive discharges with selectable rates and manual or automatic polarity switching. An optional mains supply is available for extended test operation or for use when the battery is being charged.

NSG 435 measures and displays true air breakdown voltages. It also detects real and valid air-discharges, thereby avoiding misleading discharge counts. This is especially important during long term tests and remote test setups.

The unit comes with a standard 150 pF/330 Ω discharge network for tests according to IEC/EN 61000-4-2. Accredited calibration according to ISO 17025 is optional available.

NSG 435 is supplied with standard accessories, including interchangeable test tips, a grounding cable and battery charger - all in a durable carrying case.

MAIN FEATURES

- Programmable discharge voltage 200 V to 16.5 kV
- Stabilized charging voltage
- Pre-programmed IEC/EN 61000-4-2 test settings
- True air-discharge breakdown voltage
- Compact and lightweight design

Models

NSG 435-EU	Basic set including charger with Schuko connector
NSG 435-GB	Basic set including a charger with GB connector
NSG 435-JP	Basic set including a charger with JP connector
NSG 435-US	Basic set including a charger with US connector

Specifications

Parameter	NSG 435
Pulse network	150 pF / 330 Ω as per IEC 61000-4-2
Discharge voltage	Contact discharge: 200 V ... 9 kV (in 100 V steps) Air discharge: 200 V ... 16.5 kV (in 100 V steps)
Charging voltage accuracy	better than +/- 5% measurement and display of true air flashover voltage
Discharge detection	Indicated in the display / acoustically (AD single operation only)
Frequency / repetition	0.5, 1, 5, 10, 20*, 25* Hz (* only in AD mode)
Polarity	pos / neg / automatic change
Operating modes	single / continuous
Counter	1 ... 9'999
Holding time	> 5 s
Discharge tips	exchangable, ball and point as per IEC 61000-4-2
Display	LCD panel
Power supply	NiMH battery (600mAh)
Weight	approx. 1.2 kg incl. battery
Temperature	5 ... 40 °C
Humidity	20 ... 80 % , non condensing
Athmospheric pressure	860 ... 1060 mbar

Basic set

NSG 435	ESD simulator
	NiMH battery pack
	Battery charger
	150 pF / 330 Ω discharge module
	Contact- and air discharge tip
	Carrying case

Additional accessories

INA 405	Spare battery pack
Charger for NSG 435	Charger for NiMH batteries
INA 402-xx	Mains power supply (100 ... 240 VAC, 50/60 Hz) incl. regional grip adapter (Schuko, GB, JP, US)
INA 420	Fast rise tip, approx 0.4 ns
MD 102A	Calibration target as per IEC 61000-4-2
INA 102A	50 Ω calibration adapter for MD 102A