SCHAFFNER

Products

Conducted EMC Test Instruments

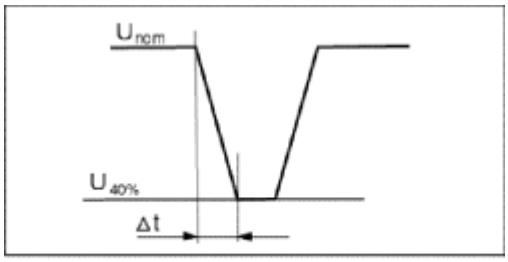
Mains Drop-out Simulator

NSG 1003

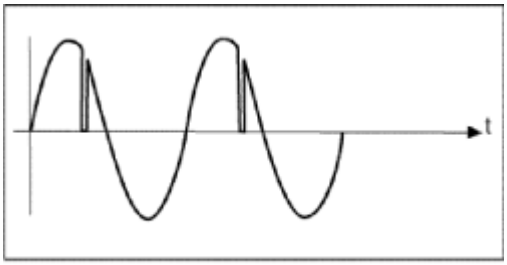
- **Tests as per IEC 61000-4-11, EN 61000-4-11, etc**
- **Local operation with large display panel**
- **Peak currents up to 500A**
- **Professional Windows software**

The generator type NSG 1003 simulates all kinds of interference that appear in ac and dc supply networks such as glitches, drop-outs, voltage swings, over and under-voltages.Modern solid state switches realistically emulate the supply network conditions for a range of various test objects in respect of impedances and peak current conditions.The NSG 1003 enables tests to be performed in accordance with EN 61000-4-11 and the other common standards including the requirements for voltage ramps.A wide range of parameter settings and combination possibilities make the instrument into a universal tool for analytical work in the laboratory as well as for verification tasks in the field of quality control.Local operation via press-buttons and the large LCD panel make the unit user-friendly during test parameter set-up. Up to 15 tests can be pre-programmed and stored in a non-volatile RAM. These can then be recalled at any arbitrary time at the touch of a button.Besides tests with static parameters, continuously varying values for voltage, drop-out time, repetition and phasing can also be defined to be executed autonomously. Voltage variations can be so programmed that time-related voltage ramps are generated.

Even more convenience is obtained by using the serial port and the professional WIN 1003, a Windows-based operating environment. The whole capability of a PC-system is then at the disposal of the user. Results can be followed up with, among other things, a flexible report generator that presents the test documentation in exactly the right form as defined by an undertaking's quality assurance facility.Optionally, the NSG 1003 can be equipped with an internal, motor-driven variable transformer All the necessary interfaces (RS232) for system expansions such as an external variable transformer, electronic ac and dc sources and a computer-independent logging printer are all included as standard.A standardised interface and an industry-based construction enable the unit to be integrated without problem into complete test systems. The unit is a fully compatible element within the Schaffner ProfLine system concept.



Mains supply variation



Short drop-out

Brief Specifications	NSG1003
Instrument supply	100 - 240Vac
EUT supply	0 - 300V rms AC 0 - 65V DC
Current rating	16A rms
Frequency range	DC - 400Hz
Storage capacity	15 tests and 15 programs of 10 tests
Housing	Desk-top unit / 19?mounting by means of accessories
Dimensions (WxHxD)	449 x 171 x 461 mm (17.6 x 6.7 x 18?approx.)
Weight	13kg, 16kg with integrated motor transformer (29/35 lbs approx.)
Repetition time:	asynch. 500µs to 2147s synch. 1 to 65535 half-waves
Drop-out time:	asynch. 200µs to 2147s synch. 200µs to 655s
Phasing:	asynch. or synch. 0 to 360?/FONT>
Test duration:	1s to 80h, continuous
Accessories	
INA1003	Integrated motor-driven transformer 3.5A
WIN1003	Windows program package
NSG642	External dual variable transformer, 16A
INA160	Mounting materials for 19" rack