NSG 3025
BURST GENERATOR

NSG 3025

- **Compact, full-capability instrument**
- **For standard tests to latest EN 61000-4-4, IEC 61000-4-4 (Amd.1 - 2010)**
- **Handles tests to product standards and company standards**
- **Designed for certification, development laboratories and on-site use**

The compact NSG 3025 is fully capable of running standard tests to EN 61000-4-4, IEC 61000-4-4, etc, as well as handling tests to both product and company standards. It has been designed for certification, development laboratory and on-site purposes.

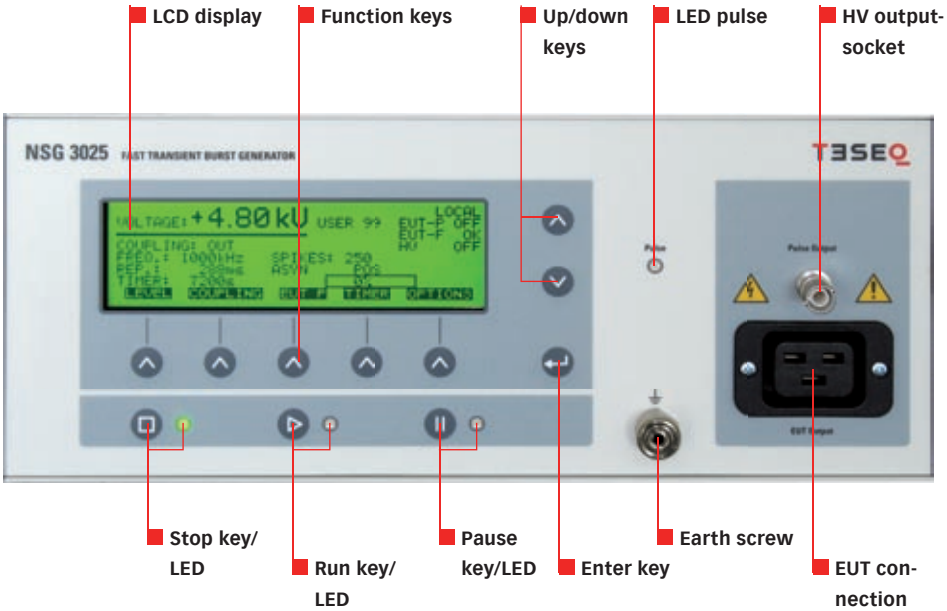
Application

Burst tests form a particularly powerful part of EMC test strategies: they are used to verify complete systems and identify disturbances in installations, as well for type testing. The high frequency components of the pulse help diagnose immunity failures caused by bad cabling or system composition, and can also indicate grounding problems.

Certification Usage

The automated operation of the NSG 3025 offers the certification engineer time saving and professional functions while occupying very little space. It performs pre-programmed tests to EN 61000-4-4 and various product standards with faultless reproducibility. Coupling mode selection and power to the EUT are all under program control. Execution of the automated tests and production of the test reports can be via computer running under Windows based software control. A 3- phase extension facility and an attenuator for periodic pulse verification purposes are also available.

NSG 3025, portability for On-Site use



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Advanced Test Solutions for EMC

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NSG 3025, portability for On-Site use

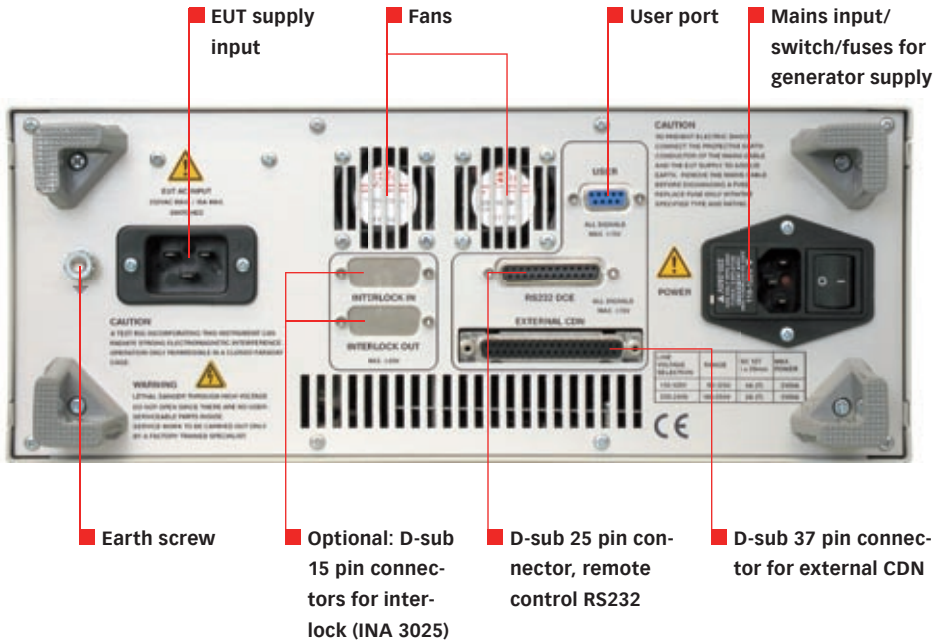
In the Development Laboratory

The NSG 3025 offers useful tools to aid product design and provide detailed analyses. The test parameters are adjustable over wide ranges that far exceed the requirements called for in the standards and pulse data can even be adjusted during an actual test to detect trouble spots. A new random frequency mode has been introduced to identify hidden design problems. The instrument is fully functional under either local or remote, computer control - including the ramping and sequencing features.

Out in the Field

The NSG 3025's compactness and its ability to operate autonomously in all working positions significantly simplify onsite tests. It will run pre-prepared tests and test sequences using its built-in coupling network for either AC or DC applications. The instrument's specifications are more than generous enough to cover wide test margins. A printer output enables test reports to be produced.

The NSG 3025 is designed for use in industrial electronics, system installations, telecommunications, medical electronics, domestic appliances, office automation, etc, and is fully equipped for all relevant product test specifications as well as future standards. The Windows-based WIN 3025 software package brings additional, fully automated functions to the NSG 3025 by making full use of a connected computer's infrastructure.



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Technical specification

Pulse form:	5/50 ns ±30% (50 Ω / 1 kΩ)
Pulse amplitude:	200 V to 4.8 kV ±10% (open circuit)
Pulse polarity:	+, -, alternating
Pulse output impedance:	50 Ω ±20%
Burst frequency:	0.1 kHz to 1 MHz ±2%
Spikes per packet:	1 to 255
Continuous frequency:	Up to 10 kHz
Burst repetition:	20 ms to 100s ±2%
Phase angle:	Asynchronous or synchronous 0 - 360°±2%
Statistical freq. distribution:	Within selectable limits of burst frequency
Internal coupling network:	Single phase, in accordance with IEC 61000-4-4
EUT supply:	250 V/16 A ac or 120 V/16 A dc max.
EUT connection:	IEC 320 C20
Coupling modes:	L1, N, PE (and combination) - to reference ground functions for the automation, interleaved
Operating elements:	Soft-keys
Display:	LCD screen
Operating modes:	Preprogrammed standard tests. Selection of all pulse parameters and test duration, with storage facility. Modification of pulse data during test run. Preset for automatic ramping of pulse amplitude, frequency, burst repetition, number of spikes, phase angle, statistical frequency distribution. Selection of coupling modes including automatic step-through. Language selection and printer function. Start, stop, pause for test run.
Control interfaces:	RS 232C for remote computer control EUT-fail, pulse trigger, trigger for oscilloscope Interface to external coupling network
Dimensions:	Table top unit with handle, 134 x 342 x 305 mm (H x W x D)
Weight:	12.5 kg approx.
Instrument power supply:	100 - 240 V, 50/60 Hz
Ambient operating temp.:	+5 to +40°C

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CAS 3025, Calibration set for Burst

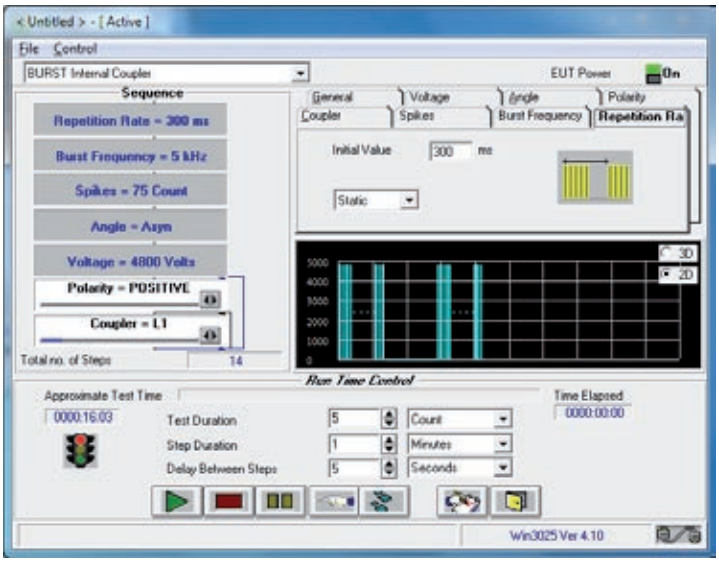
CDN 8014/8015, Coupling clamp according to IEC 61000-4-4

CDN 163, Burst Coupling Network 100A per channel

Options

Part number	Description
WIN 3025	Windows software package with additional functions for the automation, interleaved ramping, sequencing, test management, protocol set-up, export of data and communication with other EMC test programs.
CAS 3025	Calibration set for Burst/EFT
CDN 128	IEC Coupling clamp light
CDN 8014	Coupling clamp according to IEC 61000-4-4
CDN 8015	Coupling clamp according to IEC 61000-4-4 with interlock
CDN 163	Burst Coupling Network 100A per channel
INA 163	Safety banana plug set to CDN 163 (10 connectors)
INA 3025	ProfLine interlock option
INA 3026	Interface adapter for CDN 133/153
INA 3027	INA-CDN Calibration adaptor set
USO 4013	USB to serial/optical converter
USO 4013-RS232-20	USB to serial/optical converter, 20 m POF, RS232 converter*
*additional RS232 cross cable (Nullmodem)/adapter required	

WIN 3025 software package



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