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NSG 3025
Burst Generator



Burst packets

Test time

SCHAFFNER

www.schaffner.com

NSG 3025 Burst Generator



- **Compact, full-capability instrument**
- **For standard tests to EN 61000-4-4, IEC 1000-4-4, etc.**
- **Handles tests to product standards and company standards**
- **Designed for certification, development laboratories and on-site use**

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.

Portability for On-Site use



On-site tests are significantly simplified by the NSG 3025's compact design. An ideal test tool further also needs to offer:

Easy local operation in all working positions

Pre-prepared tests and test sequences

A built-in coupling network for AC and DC applications

A separately switched pulse output

A printer output for test protocols

Superb test margins

The NSG 3025 provides all these features.

Professional tool for certification applications

People working in development laboratories and test centers will appreciate the handiness and small space requirements of the NSG 3025, but more importantly, they will benefit from the time-saving and professional functions that the instrument offers for certification tasks:

Pre-programmed tests to EN 61000-4-4 and product standards

Faultless reproducibility

Selection of coupling modes under program control

EUT power control

3-phase extension

Automated test and test protocols via computer and Windows-based software

Attenuator for periodic pulse verification



For on-site use, a handy test generator with autonomous functions is required. And for laboratory use, the generator needs to offer extended functionality for product investigation and automated operation for certification work.

The NSG 3025 satisfies all these requirements from one compact unit.



Additional features for development engineers

For product design and detailed analysis, the NSG 3025 offers the following additional features:

Widely adjustable test parameters

Pulse data can be adjusted during the test run

Selection of local or computer control

Full functionality under both local and remote control, including ramping and sequencing

Superb characteristics, which far exceed the standards requirements

Switched pulse output

A new random frequency mode to identify hidden design problems

Single and continuous pulse generation

Applicable to all electronics sectors

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.

Computer control for the highest requirements

Schaffner's WIN 3025 software package brings additional, fully-automated functions to the NSG 3025:

Simple test program set-up

Multilingual user guidance

Integration of comments

Automated and editable records of test parameters and test results

Compatibility with the computer infrastructure

Expandable and future proof

Carefully tuned extensions for dataline testing and 3-phase test subjects, together with accessories for calibration, safety circuits etc., are available for universal applications.



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Technical specifications (abbreviated)

Pulse form	5/50ns ±30% (50Ω)				
Pulse amplitude	200V to 4.8kV ±10% (open circuit)				
Pulse polarity	+, -, alternating				
Pulse output impedance	50Ω ±20%				
Burst frequency	0.1kHz to 1MHz ±2%				
Spikes per packet	1 to 255				
Continuous frequency	Up to 10kHz				
Burst repetition	20ms to 100s ±2%				
Phase angle	Asynchronous or synchronous 0 to 360° ±2%				
Statistical freq. distribution	Within selectable limits of burst frequency				
Internal coupling network	Single phase, in accordance with IEC 1000-4-4				
EUT supply	250V/16A ac or 120V/16A dc max.				
EUT connection	IEC 320 C20				
Coupling modes	L1, N, PE (and combination) - to reference ground				
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.				
		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 305mm (HxWxD)		
		Weight	12.5kg approx.		
		Instrument power supply	100 - 240V, 50/60Hz		
		Ambient operating temp.	+5 to +40°C		
		Options and accessories			
		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 2025	Calibration set		
		CDN 8014	Coupling clamp according to IEC 61000-4-4		
		CDN 8015	Coupling clamp according to IEC 61000-4-4 with interlock		
		INA 3025	ProfLine interlock option		

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