



High Frequency Noise Simulator

INS 400

■ NECA TR-28

Features

- > Floating output
- > Built-in 50 Ω terminal resistor
- > Manually select different pulse widths and coupling modes
- > Coaxial short enables simple implementation of common-mode and differential-mode tests
- > 5.7-inch colorful touch screen operation, support PC interconnection

Introduction

The INS 400 high-frequency noise simulator is designed to simulate the interference generated when the relay is turned on or off as a representative of the inductive component. This type of interference contains a wide spectrum (up to 2 GHz) that is coupled, reflected, resonated, and amplified by the IC through the wiring of the power line and the printed circuit board inside the device, causing equipment failure.

The device can be used to evaluate the performance of electronic equipment against transient conducted interference, and can qualitatively test the anti-radiation performance of the anti-interference performance of the electronic equipment system and the grounding performance of the system. It is one of the most practical instruments.

Application Areas



Technical Parameters

Output Voltage	0.1 kV ~ 2 kV $\pm$ 10%, built-in 50 Ω terminal load
Polarity	Positive or negative
Output Impedance	50 Ω
Rise Time	<1 ns
Pulse Width	50 ns ~ 1000 ns (adjustable 50 ns per step)
Repetition Frequency	Max. 80 Hz, (depends on the set voltage) Frequency upper limit and set voltage formula: $U = -50f_{max} + 4500$
Phase Synchronization	0 ~ 359°, $\pm$ 10% (only L1-L2)
EUT Capacity	AC 240 V 16 A, DC 60 V 16 A
Trigger Mode	Manual, automatic, external
Test Duration	Max. 60 s per circle

General Parameters

Working Power	AC 110/220 V, $\pm$ 10%, 50 Hz/60 Hz
Max. Power Consumption	300 W
Dimension	21-inch/6U rack, 450 (W)*280 (H)*620 (D) mm
Weight	Approx. 30 kg
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75% RH (no condensation)
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard Accessories

Test Cable, Power Cord, Fuse, Flat Grounding Wire, User Manual

Optional Accessories

1	Coupling/Decoupling Network	Model: INSN 2032 AC 380 V Three-phase five-wire system 32 A Input voltage 2,000 V	
2	Coupling/Decoupling Network	Model: INSN 2050 AC 380 V Three-phase five-wire system 50 A Input voltage 2,000 V	
3	Attenuator	Model: TFB 500 Output impedance: 50 Ω Attenuation ratio: 500:1 Frequency range: DC ~ 400 MHz	

Optional Accessories

4	Capacitive Coupling Clamp	Model: CCC 100 Coupling capacitance: 100 pF ~ 1,000 pF DC 5 kV Insulation: >5 kV (1.2/50 μ s) Dimension: 1,040*140*110 mm (NMHV connector)	
5	Current Injection Clamp	Model: BCIP-400 Frequency range: 10 kHz ~ 400 MHz Inside diameter: ϕ 40 mm	
6	Isolation Transformer, Calibration Adapter		

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