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-circuit device can easily realize the common difference mode test;

> 5.7” colorful touch screen operation, Can realize PC interconnection;

Introduction

The INS 400 high frequency noise simulator is designed to simulate the interference caused by the rapid breaking of the current through the inductive component represented by the relay on or off. Such interference contains a wide spectrum (up to 2GHz), coupled, reflected, resonated by the wiring of the power cord and the printed circuit board inside the device, and amplified by the IC, resulting in device failure. The device can be used to evaluate the performance of electronic equipment against transient conduction interference, and can qualitatively test the anti-interference performance of electronic equipment system, the anti-radiation performance of local links and the grounding performance of the system. It is the most widely used in various interference simulators, and is one of the most practical instruments.

Application Areas

Technical Parameter

Output voltage	0.1 kV ~ 2 kV±10%， Built-in 50Ω 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 80Hz，(depends on set voltage) Frequency upper limit and set voltage formula: U= -50fmax+4500
Phase synchronization	0 ~ 359°,±10%（仅L1-L2）
EUT capacity	AC240 V 16 A、DC 60 V 16 A
Trigger mode	Manual, automatic, external
Test time	MAX 60 seconds/time

General Parameters

Working power supply	AC 110/220 V，±10%，50 Hz/60 Hz
Environment humidity	45% ~ 75%RH (no condensation)
Relative temperature	15 ℃ ~ 35 ℃
Boundary Dimension	21 inches, 6U
Weight	Approx. 30 kg

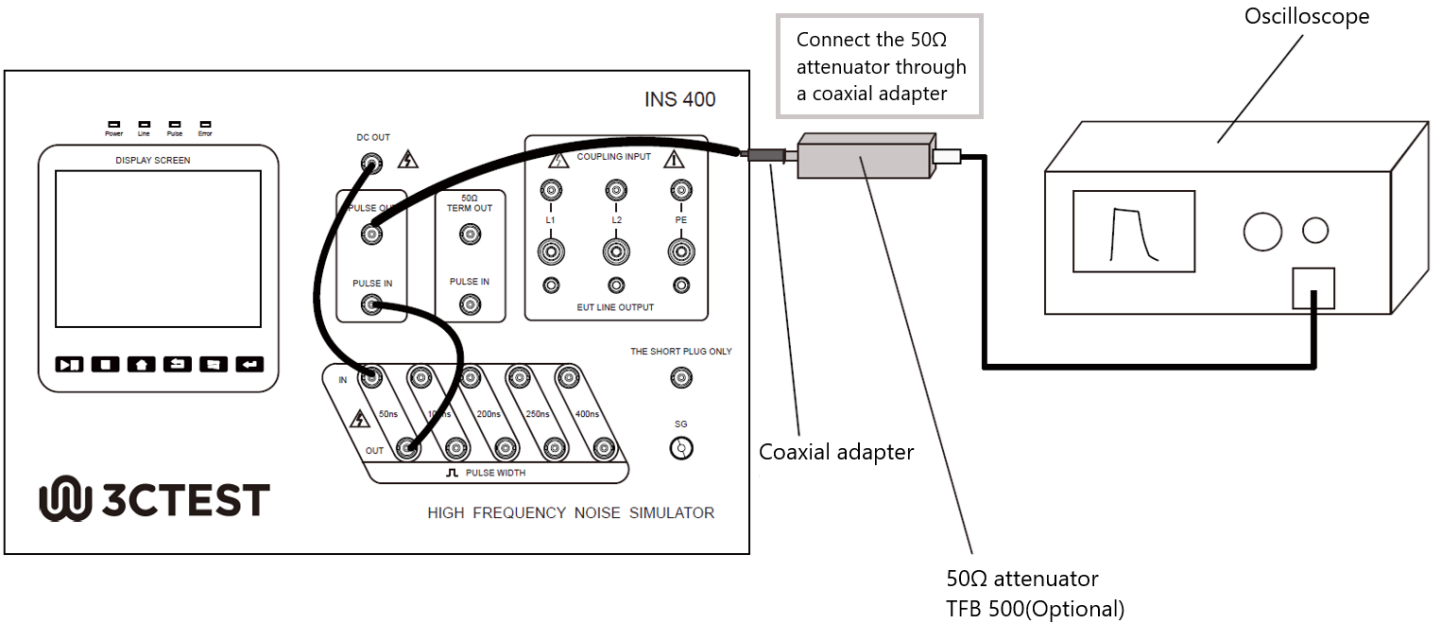
Standard Accessories

User manual, Testing line, short circuit ,Power line, Earth line, coaxial line , Fuses

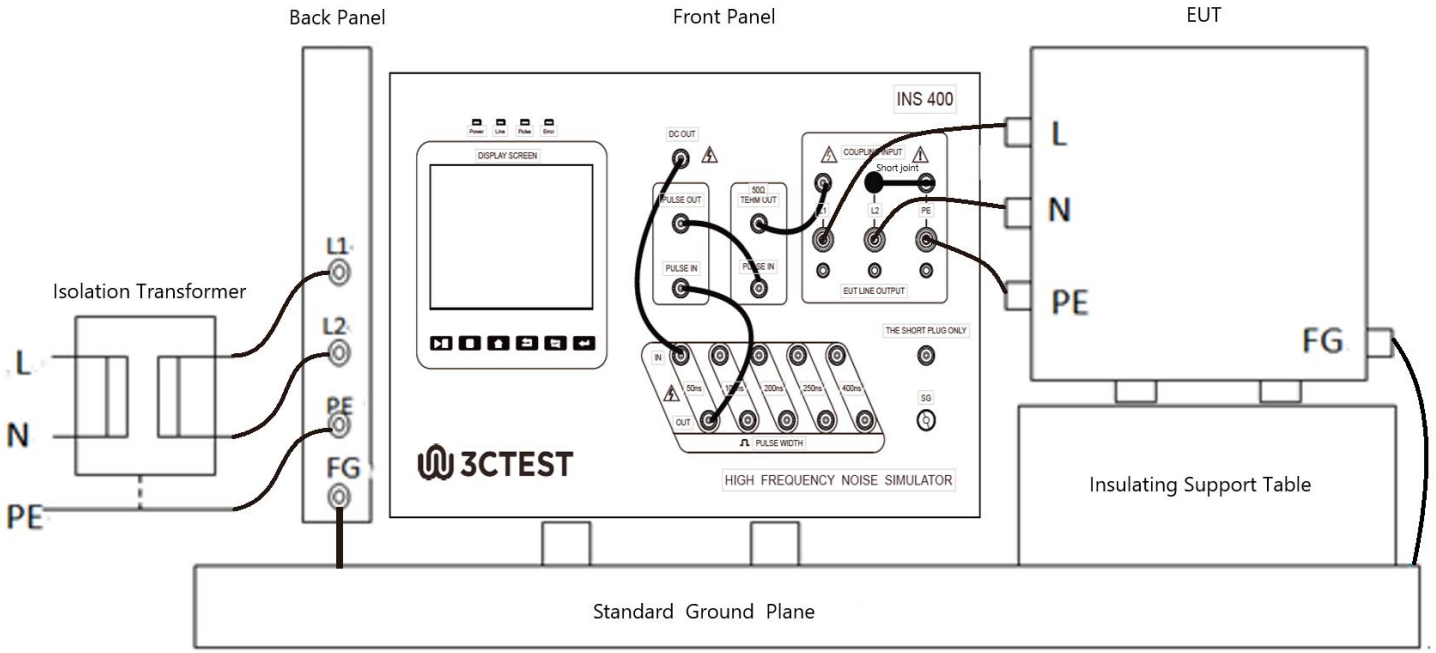
Optional Accessories

1. Coupling and decoupling network INSN 2032 	AC 380 V Three-phase five-wire system 32 A Input voltage 2000 V
2. Coupling and decoupling network INSN 2050 	AC 380 V Three-phase five-wire system 50 A Input voltage 2000 V
3. Attenuator TFB 500 	Output impedance: 50 Ω Attenuation ratio: 500:1 Frequency range: DC-400 MHz
4. Capacitive coupling clamp CCC 100 	Coupling capacitance: 100 pF～1000 pF DC 5 kV Insulating power: ＞5 kV (1.2/50 μs) Boundary dimension: 1040×140×110 mm
5. Current injection pliers BCIP-400 	Frequency range: 10 kHz～400 MHz Inside diameter: ϕ40 mm
6. Isolation transformer	

1. Typical calibration connection diagram:



2. Typical test connection diagram (differential mode L1-L2) :



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