



Induced Signal Susceptibility Test System **ISS 1800**

■ RTCA/DO-160G S19

— Features

- > High test accuracy
- > Built-in voltage and current detection functions
- > Equipped with various radiators and radiation wires

— Introduction

The ISS 1800 Induced Signal Susceptibility Test System fulfills the induced signal susceptibility test criteria of RTCA DO-160G S19, and is extensively applied to susceptibility testing for all kinds of airborne electronic equipment as well as other electronic devices.

The ISS 1800 Induced Signal Susceptibility Test System generates alternating signals ranging from 350 Hz to 32 kHz, with a maximum output voltage of 1800 V and a maximum output current of 40 A.

— Application Areas



Technical Parameters

Open-circuit Voltage	1,800 V
Short-circuit Current:	40 A
Frequency Range	350 Hz ~ 32 kHz
Induced Magnetic Field for Equipment (I)	20 A
Induced Magnetic Field for Interconnect Cables (I×L)	1.6 A·m ~ 120 A·m
Induced Electric Field for Equipment (V)	170 Vrms
Induced Electric Field for Interconnect Cables (V×L)	135 V·m ~ 5,400 V·m

General Parameters

Working Power	AC 110/220 V, ±10%, 45 Hz ~ 65 Hz
Weight	Approx. 40 kg
Dimension	4 U rack, 450 mm (W)*190 mm (H)*620 mm (D) and 6 U rack, 450 mm (W)*280 mm (H)*620 mm (D)
Ambient Temperature	0°C ~ 35°C
Relative Humidity	15% ~ 35%

Standard Accessories

User Manual, Test Cables, 3-core Cable, Ethernet Switch, 25-core Data Cable, RF Cable, Power Cord, Fuse, Feedback Compensation Test Cable, Network Cable

System Configuration

1	Signal Power Amplifier	ISG 1800, DCP 1800
2	High-Voltage Wideband Transformer	HWT 1800 (1,800 V)
3	Wideband Converter	WCT 40 (40 A)
4	Current-Limiting Resistor	CLR 1M (1 MΩ)
5	Electric Field Radiator	ERB 20 (Length: 20 cm)
6	Magnetic Field Radiator	HRB 60 (Length: 60 cm)
7	Electric Field Radiation Wire	ERL 5M (Length: 500 cm)
8	Magnetic Field Radiation Wire	HRL 5M (Length: 500 cm)
9	Digital Multimeter	DM3068
10	CoreLab Test Software	Support Windows 7/8/10 /11; Support Ethernet Interface; Support sequence test, easy to operate, generate and export test report.

SUZHOU 3CTEST ELECTRONIC CO., LTD.

Address: No. 99 E'meishan Road, SND, Suzhou, Jiangsu Province, China

E-mail: globalsales@3ctest.cn

Service: service@3ctest.cn

Tel: +86 - 512 - 68077192

Web: www.3ctest.com



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