



Ripple Signal Generator

RSG 40C20S

- ISO 11452-8
- GB/T 33014.8
- GJB 151C

Features

- > 5.7-inch color touch screen front panel operation
- > The integrated design makes the system more simple, safe and durable
- > Multiple operation modes
- > The key components are all made of high-quality imported materials, with reliable quality, exquisite appearance and comfortable operation
- > USB, Ethernet and RJ45 interfaces, used for PC remote control and printing test reports

Introduction

The RSG 80C20S Ripple Signal Generator complies with ISO 11452-8, GJB 151C and GB/T 33014.8. The RSG 80C20S is used for low-frequency magnetic field immunity and power line conducted susceptibility tests.

The RSG 80C20S adopts the third-generation control platform design of our company and features intelligent control and convenience to use. Users can run tests through Autolab software by setting all parameters on it. ISO 11452-8 low-frequency magnetic field immunity test requires the PC software AutoLab, while GJB 151C CS101 test needs the EMC(CS101) PC software.

Application Areas



Technical Parameters

Complies with ISO 11452-8 standard	
Magnetic Field Strength	Radiation Ring: TBR 100 (15 Hz ~ 150 kHz): 0.3 A/m ~ 1,000 A/m (varies with frequency) TBR 300 (DC): 90 A/m ~ 3,000 A/m TBR 1500 (DC): 90 A/m ~ 15,000 A/m Helmholtz Coil: TYXH 03100 (15 Hz~150 kHz): 0.3 A/m ~ 1,000 A/m (varies with frequency) TYXH 03300 (DC): 90 A/m ~ 3,000 A/m TYXH 06300 (DC): 90 A/m ~ 3,000 A/m
Frequency Range	DC, 15 Hz ~ 150 kHz, sine wave
Total Current Harmonic	<5%
Magnetic Field Accuracy	$\leq \pm 5\% \pm 0.5 \text{ A/m}$
Frequency Error	$\leq \pm 0.1\%$
Complies with GJB 151C CS101 standard	
Output Voltage	-40 V ~ +40 V
Output Current	Max 20 A continuous
Frequency Range	25 Hz ~ 150 kHz
Dwell Time per Frequency Point	1 s ~ 120 s

General Parameters

Display Screen	5.7" TFT touch screen
Working Power	AC 220 V, $\pm 10\%$, 50/60 Hz
Fuse	10 A
Main Unit Frequency	DC ~ 300 kHz
Failure Detection	LCD display in front panel and stop work when failure occurs
Working Status Indication	LED indication in front panel
Grounding Method	Flat grounding wire
Dimension	6U rack, 450 mm(W) * 280(H) mm * 620 mm(D)
Weight	Approx. 30 kg
Atmospheric Pressure	86 kPa ~ 106 kPa
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%

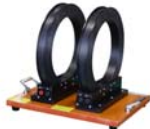
Standard Accessories

Power Cord, User Manual, Test Cables, Fuses, Grounding Wire

Optional Accessories

1	Radiation Ring	Model: TBR 100 Frequency: 15 Hz ~ 150 kHz AC magnetic field strength: 0.3 A/m ~ 1,000 A/m (varies with frequency)	
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Optional Accessories

2	Radiation Ring	Model: TBR 300 DC magnetic field strength: 90 A/m ~ 3,000 A/m	
3	Radiation Ring	Model: TBR 300 DC magnetic field strength: 90 A/m ~ 15,000 A/m	
4	AC Helmholtz Coil	Model: TYXH 03100 Frequency: 15 Hz ~ 150 kHz AC magnetic field strength: 0.3 A/m ~ 1,000 A/m (varies with frequency)	
5	Helmholtz Coil	Model: TYXH 03300 DC magnetic field strength: 90 A/m ~ 3,000 A/m	
6	Helmholtz Coil	Model: TYXH 06300 DC magnetic field strength: 90 A/m ~ 3,000 A/m	
7	Automotive Immunity Test Software	Model: AutoLab Compatible with Windows 7/8/10/11. It features user-friendly operation with an elegant and intuitive interface. Equipped with comprehensive operation functions and standard test libraries, it enables users to easily create custom test sequences and fulfills test requirements specified in ISO 11452-8.	
8	System Integration Software	Model: EMC(CS101) Compatible with Windows 10, supporting USB communication. It enables remote calibration and test operations and meets the test requirements of GJB 151C CS101 standard.	
9	Coupling Transformer	Model: TPT-CS101-50B Works with RSG 40C20S to perform GJB 151C CS101 tests.	

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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