

Impulse Current Generator

LSG 4606



- SAE ARP5416A
- RTCA DO160

Features

- > 10.1" color touch screen
- > Max. test current 8 kA
- > Remote control via control unit
- > Fiber optic communication, reliable and stable

Introduction

The LSG 4606 Impulse Current Generator is designed to simulate indirect lightning effects on airborne equipment in accordance with SAE ARP5416A Chapter 6.1.6 and RTCA DO-160 Section 22. It generates 6.4/69 μ s lightning current impulses up to 8 kA for aircraft lightning protection testing.

The system consists of a control unit (MCS 2000-6U) and a current generator (LSG 4606), enabling remote operation for safe and efficient testing.

Application Areas



Technical Parameters

Standard	SAE ARP5416A, Chapter 6.1.6. RTCA DO160
Test Voltage	0.4 kV ~ 19 kV ($\pm 10\%$)
Test Current	200 A $\leq I \leq$ 8,000 A (source port) 60 A $< I \leq$ 2,500 A (into load 20 μ H+5 Ω , for composite structure) 2,500 A $< I \leq$ 6,000A (into load 20 μ H, for aluminum structure)
Pulse	6.4 μ s $\pm 20\%$, 69 μ s $\pm 20\%$
Output Polarity	Positive, negative, alternative
Repetition Rate	1 s ~ 99 s (shortest time depends on test voltage)
Test Counter	1 ~ 999
Trigger Mode	Automatic

General Parameters

Display Screen	10.1 inches TFT touch screen
Working Voltage	220 V ($\pm 10\%$), 50 Hz /60 Hz
Fuse	10 A
Power Consumption	1,500 VA
Communication Mode	Fiber optic
Grounding Method	Flat grounding wire
Dimension	MCS 2000-6U: 550*280*450 mm LSG 4606: 600*950*1,250 mm
Weight	MCS 2000-6U: 15.5 kg LSG 4606: 221 kg
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard Accessories

Power Cord, Fuse (Spare Parts), User Manual, Test Cables, Fiber Optic Cables, Fiber Optic Modem, Emergency Stop Control Cable, Grounding Wire, RF Cable

Optional Accessories

1	Immunity Test Software	Model: CoreLab > Support Windows 7/8/10 /11 > Supports Ethernet and serial communication modes > Supports parameter sequence, test sequences, easy for operation > Supports customer information configuration and automatic test report printing.	
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