

Electrostatic Sensitivity Tester for Electric Initiating

Explosive Device

EDS 30S

Datasheet



In Compliance with

> GJB 736.11:1990

Introduction

The accidental explosion of electric initiating explosive device is caused by static electricity spark with certain energy imposed on electric initiating explosive device. The influence of static electricity to the electric explosive device can be regarded as a capacitor charged to a certain voltage, then the capacitor discharges to electric initiating explosive device through specified resistance. Electrostatic sensitivity test for electric initiating explosive device is to measure the fire rate or fire voltage (energy) under specified condition.

EDS 30S is designed according to GJB 736.11:1990, which is used to measure the relative sensitivity of electric initiating explosive device to electrostatic spark discharge so as to determine its safety.

Features

- > 5.7" color touch screen front panel operation;
- > Equipped with explosive box and switching box etc. for test setup;

Application Areas

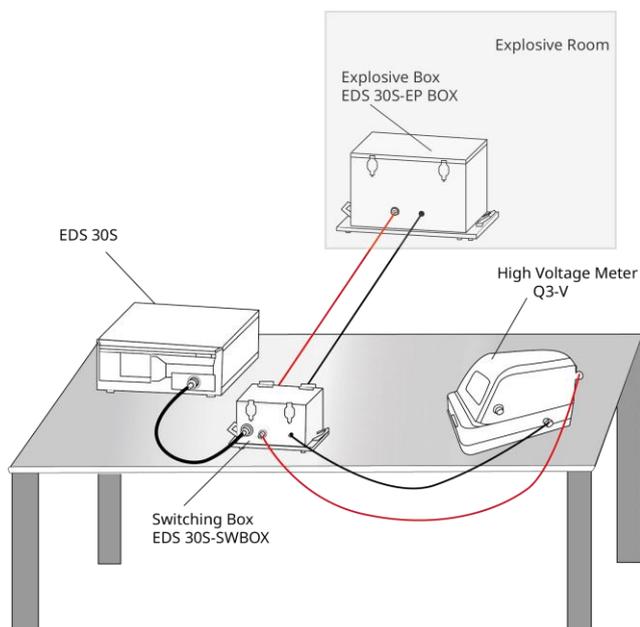
- > Military

Technical Parameter	
Output Voltage	10 V~ 30 kV
Tolerance	±5%±2 V
Polarity	Positive, negative or alternative (first positive and then negative)
Repetition Time	10~99 s
Repetition Number	1~99
Trigger Mode	Manual/Auto/External Trigger
Charging Capacitor	500 pF/2 nF ±5%
Serial Discharging Resistor	500 Ω/5000 Ω ±5%

General Parameter	
Working Power	AC 110 V/220 V , ±10% , 50/60 Hz (default 220 V in mainland China)
Fuse	6 A
Max. Power Consumption	100 W
External Trigger Input	BNC, 5V TTL, the node is open usually and triggered when closed;
Ambient Temperature	15 °C ~ 35°C
Relative Humidity	45% ~ 75%
Atmospheric Pressure	86 kPa ~ 106 kPa
Weight	Approx. 15 kg
Dimension	19"/4U

Accessories
Fuse, Power line, Flat ground line, Test line, alligator clip, User Manual, Explosive box EDS 30S-EP BOX, Switching box EDS 30S-SWBOX, High Voltage Meter Q3-V, Capacitor modules 500 pF & 2 nF, Resistor module 500 Ω & 5000 Ω

Test Setup Illustration :





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