



Voltage impulse simulator

VSG 864

■ UL 864 : 2020

Features

- > 5.7-inch color touch screen front panel operation
- > Schedule tests with custom voltage levels
- > Reliable performance, strong security, and high convenience
- > Can generate four types of voltage surge waveforms
- > The Ethernet interface can be used for remote control of the PC and printing of test reports

Introduction

VSG 864 is a voltage shock simulator designed based on the third-generation control platform, specifically for meeting the product testing requirements of UL 864 fire alarm system. It can meet the immunity test demands in various test scenarios. The overall performance of the system is reliable, highly secure, and highly convenient. It can fully meet the customized needs of customers.

Application Areas



Technical
Parameters

Test Voltage	90 V ~ 2500 V , $\pm 10\%$
Waveform 1	
Calibration Voltage	2400 V , $\pm 10\%$
Rise Time (0% ~ 100%)	$\leq 35 \mu\text{s}$
Pulse Width (0% ~ 50%)	$\geq 63 \mu\text{s}$
Pulse Width (0% ~ 0%)	$\geq 86 \mu\text{s}$
Waveform 2	
Calibration Voltage	1000 V , $\pm 10\%$
Rise Time (0% ~ 100%)	$\leq 62 \mu\text{s}$
Pulse Width (0% ~ 50%)	$\geq 119 \mu\text{s}$
Pulse Width (0% ~ 0%)	$\geq 178 \mu\text{s}$
Waveform 3	
Calibration Voltage	500 V , $\pm 10\%$
Rise Time (0% ~ 100%)	$\leq 60 \mu\text{s}$
Pulse Width (0% ~ 50%)	$\geq 130 \mu\text{s}$
Pulse Width (0% ~ 0%)	$\geq 280 \mu\text{s}$
Waveform 4	
Calibration Voltage	100 V , $\pm 10\%$
Rise Time (0% ~ 100%)	$\leq 65 \mu\text{s}$
Pulse Width (0% ~ 50%)	$\geq 400 \mu\text{s}$
Pulse Width (0% ~ 0%)	$\geq 1250 \mu\text{s}$
Calibration Load	200 $\Omega \pm 5\%$ series 0.1 $\mu\text{F} \pm 10\%$
Polarity	Positive, negative, alternative
Test Interval Time	3 s ~ 999 s
Counter	1 ~ 10000

**General
Parameters**

Display Screen	5.7-inch TFT touch screen
Working Power	AC 220 V \pm 10%,50/60 Hz
Fuses	6 A
Maximum Power Consumption	200 W
Memory Space	Unlimited (PC)
Communication Methods	Ethernet LAN, RJ45
Trigger Mode	Auto, manual, external trigger
External Trigger Input	BNC , 5V TTL, normally open node, closed trigger
CRO Trigger Output	BNC , 5V TTL
Operation Control Input	BNC , 5V TTL
Failure Detection	When it fails, the front panel LCD displays and the instrument stops working
Working Status Indication	Front panel LED indication, LCD display
Grounding Connection Method	Use a flat grounding wire
Dimension	19 inches/4U 450 mm(W)*190 mm(H)*620 mm(D)
Weight	Approx. 22 kg
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45%~75%,RH (no condensation)
Atmospheric Pressure	86 kPa ~ 106 kPa

**Standard
Accessories**

Power Cord, Test Wire, Grounding Wire, Fuses, RF Cable, VSG 864-RCCB R-C Calibration Box, User Manual, Inspection Report, Product Warranty Certificate

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