



Voltage Offset Simulator

VOS 16C03

- VS-00.35-L-10008:2018
- VW 80000
- GMW 3172
ISO 16750-2:2023
- ISO 21780:2020
- GB/T 28046.2:2020
- GB/T 45120:2024

Features

- > Bipolar four-quadrant power source;
- > Voltage slew rate up to 80 V/ μ s;
- > Built-in signal source supports arbitrary waveform editing;
- > Max. output frequency 300 kHz (No voltage attenuation);
- > Supports Pulse 10a/10b/10c/10d specified in CHANGAN standard Table 31 of VS-00.35-L-10008:2018;

Introduction

The VOS 16C03 Voltage Offset Simulator is designed strictly in accordance with the Pulse 10a/10b/10c/10d specified in Table 31 of CHANGAN standard VS-00.35-L-10008:2018. The product integrates a high-performance signal generator with frequency up to 300 kHz and its voltage slew rate up to 80 V/ μ s.

The VOS 16C03 is controlled by PC software AutoLab. Besides outputting Pulse 10a/10b/10c/10d specified in Table 31 of VS-00.35-L-10008:2018, it can also output DC waves, ramp waves, triangular waves, sine waves, square waves, swept frequency waves, exponential waves and user-defined arbitrary waveforms.

Application Areas



Technical Parameters

Output Voltage	-5 V ~ +16 V, ± 0.2 V
Output Current	3 A
V _{PP}	Max. 10 V (DC - 300 kHz) , ± 0.2 V
Internal Signal generator	
Frequency Range	DC ~ 500 kHz
Waveform Type	DC waveform, ramp wave, triangular wave, sine wave, square wave, swept-frequency wave, exponential wave, oscilloscope stored data waveform, user-defined editable waveform, irregular random arbitrary waveform
Settable Parameters	Amplitude, duration time, frequency, DC offset, rectification, periodic duty circle, phase angle, trigger mode
Amplitude and Offset Variation	Static, Linear
Frequency Variation	Static, Linear Linear step: 10 Hz ~ 10 kHz; Logarithmic step: 1% ~ 100%
Start and End Phase Control	0° ~ 359°, 1° step
Rectification	None, positive, negative, bridge rectification
Import File Type	CSV
Sampling Points of Imported File	8,000
Waveform Segments	Up to 1,000 segments for each waveform Each segment supports multiple waveform types.
Segment Duration	DC wave: 10 μ s ~ 299 h Triangle/sine/square/sweep waves: 1 ms ~ 299 h Exponential/oscilloscope stored data waves: 1 ms ~ 20 s
Counter	1 ~ 9,999

General Parameters

Working Power	AC 220 V, $\pm 10\%$; 50/60 Hz
Fuse	6 A
Max. Power Consumption	200 W
Communication Interface	Ethernet LAN (RJ45)
Device Status Indication	Front panel LED indication, LCD display
Grounding Method	Flat grounding wire

General Parameters

Dimensions	4U rack, 450 mm (W)*190 mm (H)*620 mm (D)
Weight	16.5 kg
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard Accessories

Power Cord, Test Cable, Grounding Cable, Fuse, User Manual

Optional Accessories

1	Automotive Immunity Test Software	Model: AutoLab > Support Windows 7/8/10/11 operating systems; > Intuitive interface, easy operation for customized test procedures; > Template-based report function for flexible test report generation	
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