

ARBITRARY SIGNAL GENERATOR

PAWG 100

Datasheet

In Compliance with



> Ford ES-XW7T-1A278-AB > Ford ES-XW7T-1A278-AC

> LV 124

> Ford WDR 00.00EA

> VW 8000

> GMW 3172

>BMW GS 95003-2

> Hyundai/Kia ES 95400-10,

> BMW GS 95024-2-1

Rev. D

> BMW- (Airbag ECU)

> DO 160 Section 16

> BMW 600 13.0(Part 1)

> Case N ew Holland

> Chrysler CS-11809

ENS0310

> Chrysler PF-9326

> Audi(Reference vehicles)

> Cummins 14269

> Fiat 9090110

(000000 000)

> DaimlerChrysler PF-10541

(982022-026)

> Ford EMC-CS-2009.1

> DaimlerChrysler DC-10615

Introduction

The test waveforms in automotive become more and more complicated, and more attention are paid to vehicle or components. Normal waveform generator can't meet these requirements, especially, multiple waveforms superposition during one test is needed, PAWG 100 arbitrary signal generator is the best solution.

1. Multiple sequence oscillator

- Signal output part is cordwood components, can be extended to max.4 channels.
- Can generate arbitrary waveforms: DC wave, ramps, sine, sweep frequency, exponential, frequency modulation/amplitude modulation sine wave, irregular and random arbitrary wave.
- · Can generate variation waveform with voltage and time axis
- $\cdot \ {\rm Can} \ {\rm generate} \ {\rm waveform} \ {\rm timing} \ {\rm sequence}$

2. Software for generating arbitrary waveform

Using excellent GUI arbitrary waveform generation software, it can easily generate complex waveforms with repeated voltage, time scanning.

Features

- > Meet the tests as per ISO16750 (corresponding individual manufacturer standard)
- > Every oscillation channel has waveform arithmetic circuitry to output waveform with high resolution and accuracy
- > By software control with Ethernet, represent kinds of variation phenomenon easily and really.
- > Ensure the synchronization deviation among channels to be less than $1\mu s$
- > Waveform data (CSV) received from oscilloscope can be output with high accuracy.

Application Areas

- > Automotive
- > Aviation
- > Military





Technical parameters	
Number of	1 ch ox 4 ch 2 or 4 ontional
Channels	1 ch \sim 4 ch, 2 or 4 optional
Synchronization	
accuracy among	<1 μs
channels	
Waveform type	DC wave, ramps, triangle wave, sine, square wave, sweep frequency, exponential, frequency modulation/amplitude modulation, Oscilloscope storage data waveform, user's self-defined waveform, irregular and random arbitrary wave
Parameters	Amplitude, duration, frequency, DC offset, rectification, duty cycle, phase angle, trigger, noise
Amplitude and offset ramping	Static, linear, exponential
Frequency ramping	Static, linear, exponential, log(base 10)
Start/End phase angle	0 ~ 360°in 1°step
Rectification	None, positive, negative, bridge rectification, programmable
Frequency range per channel	Operate mode: 500 kHz max. sine, square, triangle wave, etc, which include sweep frequency, amplitude, offset, phase angle and synchronization change among channels. Direct internal storage mode: DC-500 kHz arbitrary wave, 1 MHz square wave
Waveform output rate	25 MSPS per channel
Frequency resolution	0.001 Hz
Rise/fall time	≤100 ns @ 20 Vpp
Waveform voltage amplitude	0∼±10.00 V
Drive capacity	≥ 1 kΩ
Short circuit	Voc
protection	Yes
Voltage setting	1 mV
resolution	1 mV
Output accuracy	± (0.2% + 10 mV) DC - 10 kHz ±1% 10 - 100 kHz ± 2% 100 - 350 kHz ± 5% 350 - 500 kHz

Technical parameters	
File type	CSV
File waveform points	16 MB Max
Waveform data storage	Dynamic cache data storage: 1 GB DDR3 NVDS: 32 GB NAND FLASH
Segments of waveform	1000 segments per waveform, each segment is composed of several kinds of waveforms
Segment duration	100 μs to 999 hrs or infinite loop
Delay between segments	None
Test duration	1ms~9999 hrs, 1 to 99999 count, or infinite loop
Trigger oscilloscope output	A BNC socket 0-5 V, setting trigger point at the arbitrary point of waveform generation software, monitoring the generated waveform by oscilloscope external trigger function
External control input	One BNC socket 0-5 V input, used for 1~4 ch waveform external control
PC interface	Ethernet
Operating temperature range	15 ℃ -35 ℃
Operating humidity range	45%-75%
Driving power supply	AC 90 V - 260 V 50/60 Hz 100 VA
Dimension	19'/4u
Weight	Approx.10 kg

Optional Accessories

By self-developed AutoLab software, users can edit kinds of waveforms for waveform segment or test points. According to different requirement, users can regulate the waveform by advanced image tools, and recording waveforms by other way is also supported like oscilloscope capturing. All types of waveforms can be downloaded to PAWG 100.

PAWG 100, APS and APG series must be matched together.



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