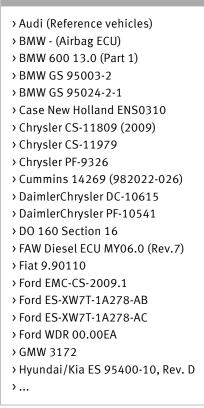


AUTOWAVE GENERATES AND RECORDS AUTOMOTIVE WAVEFORMS



FOR TESTS ACCORDING TO ...



AUTOWAVE - A NEW DIMENSION FOR BATTERY SUPPLY SIMULATION IN THE AUTOMOTIVE AREA

Battery simulation becomes more and more an issue in today's automotive testing. Waveforms are getting more and more complex. Standardised single phenomena like cranking are still tested but real-life signals are of even higher interest for testing full vehicles or parts of it under real conditions. Common arbitrary generators often fail in testing these requirements especially if iteration of various test parameters within one test are required.

The AutoWave unifies a 4-channel arbitrary generator and a 2-channel transient wave recorder in a small and handy unit. The AutoWave is best of generating and recording any kind of waveform in the automotive area.

COMPLIANCE TEST SOLUTIONS

HIGHLIGHTS

www.emtest.com

- > Dual-Processor-Technology, 500kS/s sample rate
- > 4-channel arbitrary generator
- > 2-channel transient recorder
- > Simultaneous recording/generation
- > Library of standard test routines
- > Pseudo-random function
- > 60GB built-in hard disk

APPLICATION AREAS





TECHNICAL DETAILS

BENEFITS

AUTOWAVE - EASY TO USE FOR MOST COMPLEX WAVEFORM SIMULATION

Based on a Dual-Processor Technology, with an integrated high-performance PC, a digital signal processor (DSP) and equipped with a hard disk the AutoWave is capable to record and generate waveforms in realtime. Even most complex waveforms with waveform parameters being iterated within a full test cycle or pseudo-randomly selected waveform parameters can be programmed. No matter whether waveforms are programmed from segments or from single points (normally resulting in MBs of data) the AutoWave will do.

Recording data of up to 1GByte is easily possible. The input channels are designed for up to +/-100V with 16bit resolution. Long-term measurements for several hours or even days can be performed.

Interfaces like GPIB, Ethernet and USB (to connect a memory stick) are standard features.

The AutoWave can be used in combination with AMETEK CTS VDS 200Nx models and RDS 200N models or any programmable DC source having a DC signal input 5/10VDC.

SOFTWARE

AUTOWAVE.CONTROL - EDITING, DOCUMENTING AND MANAGING YOUR WAVEFORMS

autowave.control is the tool to easily and conveniently control the AutoWave.

By means of autowave.control the user can program any kind of waveform either composed from segments or points and download into the AutoWave. Enhanced graphic tools are at hand to adjust the waveform according to individual requirements. As a unique feature, compared to other arbitrary solutions, autowave.control supports programming of most complex waveforms as easy as can be where each parameter can be iterated within a single pattern. A random function is implemented to generate waveforms with e.g. pseudo-randomly selected still reproducible parameter settings such as required by the latest Jaguar/Land Rover test specification Cl 265.

autowave.control provides a library of an extensive compilation of predefined segments as well as a large number of test routines as per various manufacturer specifications.

autowave.control is also handling any waveform recorded either by the WaveRecorder or by any other method (e.g. oscilloscope). All waveforms can be downloaded into the AutoWave.

autowave.control offers an enhanced reporting tool to generate test/measuring reports and can be used under Windows 7, Windows 8 (64Bit) and Windows 10.



TECHNICAL DETAILS

AUTOWAVE (BASIC VERSION)

Output channels	2 channels; 2 additional output channels can be added as an option (ExtBoard)
Output voltage	10V, unipolar or bipolar
Resolution	16 Bit
Frequency	DC - 50kHz

WAVE FORMS

Segment types	DC voltage, Sine wave, Sine wave sweep, Square wave, Triangular wave, Sawtooth wave, Ramp up / Ramp down, Exponential wave
Segment duration	Unlimited
Number of segments	100 per waveform

WAVERECORDER (OPTIONAL)

Input channels	2 channels (ExtBoard for AutoWave required)
Input voltage	5V, 10V, 20V, 50V and 100V; unipolar or bipolar
Resolution	16 Bit
Accuracy	Better than 0.2%
Frequency	DC - 50kHz
Sampling rate	5Hz - 500kHz, selectable
Memory	Min. 60GB on hard disk; File size max. 1GB

DISPLAY AND CONTROLS

Display	Text LCD 2 lines, 40 characters
LED indicators	Power On Active channel 6 (2 inputs, 4 outputs) Trigger Functional status hard disk
Operation	6 function keys

TRIGGER AND DUT MONITORING

Trigger	2 inputs, 2 outputs	
DUT monitors	2 inputs, configurable	

INTERFACES

GPIB Ethernet USB (for memory stick) Frame bus (internal system bus)

5°C - 40°C
10% - 90%, non-condensing
AC: 90V - 250V, 47Hz - 63Hz
1A slow blow
Max. 40W
100mm x 380mm x 390mm
6kg





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Information about scope of delivery, visual design and technical data correspond with the state of development at time of release. Subject to change without further notice.

