



MAIN FEATURES

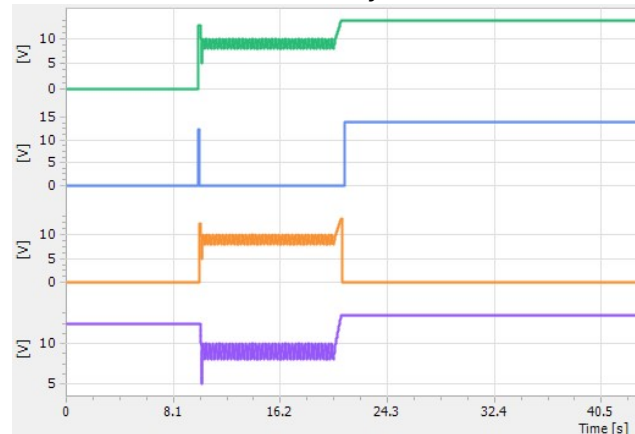
- Dual-Processor-Technology, 500 kS/s sample rate
- Up to 4-channel arbitrary generator
- 2-channel transient recorder (AutoWave-WR)
- Simultaneous recording/generation (AutoWave-WR)
- Library of standard test routines
- Pseudo-random function
- 60GB built-in hard disk
- Multiple interfaces

AutoWave Signal Generator with parameter iteration

Battery phenomenon and therefore battery simulations become more and more an issue in today's automotive testing. 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 file are required. Even most complex waveforms with parameters being iterated within a full test cycle or pseudo-randomly selected waveform parameters can be programmed and performed with the AutoWave. No matter whether waveforms are programmed from segments or from single points (normally resulting in MBs of data), the AutoWave will do.

Example with 4 channel test simultaneously



Complex wave simulations - easy to use

Both models offer up to 4-channels to output different signals simultaneously in a small and handy unit.

The WR-model offers in addition a 2-channel transient wave recorder. The AutoWave-WR is best of generating and recording any kind of waveform, even simultaneously, in the automotive area.

Recording data of up to 1 GByte is easily possible. The input channels are designed for up to +/-100 V with 16 bit resolution.

Long-term measurements for several hours or even days can be performed. Interfaces like GPIB, Ethernet and USB (for data transfer by a memory stick) are standard features.

Software

Autowave.control is the software tool to easily and conveniently remote control the AutoWave. It offers an enhanced reporting tool to generate test/measuring reports and provides a library of an extensive compilation of predefined segments as well as a large number of pre-programmed standard test routines as per various manufacturer specifications. Measuring tools such as scopes can be integrated.

Technical specification

Table	AutoWave	AutoWave-WR
Output channels	2	4
Input channels (recorder)	-	2
Output voltage	10 V, unipolar or bipolar	
Accuracy output voltage	DC: ± 0.5 % (+5 mV) / AC: ± 1%	
Input voltage (recorder)	-	5 / 10 / 20 / 50 / 100 V unipolar or bipolar
Resolution	16 bit	
Bandwidth / Frequency	DC ... 50 kHz / max. 500 kS/s for 1 channel	
Memory	Min 60 GB hard disk, file size max. 1GB	
Segment types / wave forms	dc, sine, sine sweep, square, triangular, sawtooth, ramps, exponential, formula, etc.	
Number of segments	max. 50 per waveform *	
Segment duration	approx. 24 h per segment	
Parameter iteration	YES	
Point files	YES	
Interfaces		
Trigger	2x input, 2x output	
DUT monitor	2x input, configurable	
Remote interface	1x GPIB, 1x ethernet, 1x framebus (EM Test internal bus)	
Other interfaces	USB A, only for data transfer by memory stick	
Display	LCD, 2 lines, 40 characters	
Safety	Outputs short circuit proteded (10 mA max.)	
General		
Dimension	380 x 390 x 100 mm	
Weight	6 kg	6.5 kg
Power main supply	widerange 90 ... 250 VAC; 47 ... 63 Hz	
DC Supply (WR model only)	-	12 ... 32 VDC / 3.15 AT
Fusage / Power	1 AT / max. 40W	
Temperature	+ 5 ... + 40 °C	
Humidity	10 ... 90 %, non condensing	
Athmospheric pressure	860 ... 1060 mbar	

* The effective number depends on the complexity of the waveform / segment

Accessories / Options

Ext. Board	2 additional output channels (AutoWave only)
OPT AW1-Fast	Option to increase slew rate (only in combination with a VDS 200Qx.2)
OPT AW-GMW3172	Option for GMW3172 pulse superimposed voltage 9.2.x

More automotive emc test generators

VDS 200Qx.2 series	4-quadrant amplifier, -15 ... 80 V, 25 ... 200 A, up to 250 kHz
VDS 200Rx series	2-quadrant amplifier, 0 ... + 60 V, 25 / 50 / 100 A, up to 150 kHz
AMP 200N2	Audio amplifier for magnetic field and ripple testing
PFM 200Nx series	Power Fail Module, supply & data lines
RDS 200N1	2 quadrant source, 0 ... + 16V, 0 ... 10 A, up to 30 kHz