

# AUTOWAVE

## GENERATES AND RECORDS AUTOMOTIVE WAVEFORMS



### FOR TESTS ACCORDING TO ...

- › Chrysler PF 9326
- › DaimlerChrysler DC-10615 Rev. A
- › DaimlerChrysler PF-10541
- › Fiat 9.90110
- › Ford ES-XW7T-1A278-AB
- › Ford ES-XW7T-1A278-AC
- › Ford WDR 00.00EA
- › GMW 3172
- › Hyundai ES 39110-00
- › Mack Trucks 606GS15
- › Mazda MES PW 67600
- › Mercedes MBN 22100-2
- › Mitsubishi ES-X82010
- › PSA B21 7110
- › Renault 36.00.400/B
- › Renault 36.00.400/C
- › Renault 36.00.808/--G
- › Renault 36-00-808/--H
- › Toyota TSC3500G
- › Toyota TSC3590G
- › Toyota TSC6203G
- › Toyota TSC7021G
- › Toyota TSC7203G
- › Toyota TSC7306G
- › ...

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

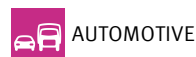
Battery simulation becomes more and more an issue in today's automotive testing. Waveforms are getting more and more complex. Standardised single phenomena like cranking are still tested but real-life signals are of even higher interest for testing full vehicles or parts of it under real conditions. 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.

#### HIGHLIGHTS

- › **DUAL-PROCESSOR-TECHNOLOGY, 500KS/S SAMPLE RATE**
- › **4-CHANNEL ARBITRARY GENERATOR**
- › **2-CHANNEL TRANSIENT WAVE RECORDER**
- › **SIMULTANEOUS RECORDING/GENERATION**
- › **LIBRARY OF STANDARD TEST ROUTINES**
- › **60GB BUILT-IN HARD DISK**

#### APPLICATION AREAS



## TECHNICAL DETAILS

### AUTOWAVE

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

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. 40GB 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

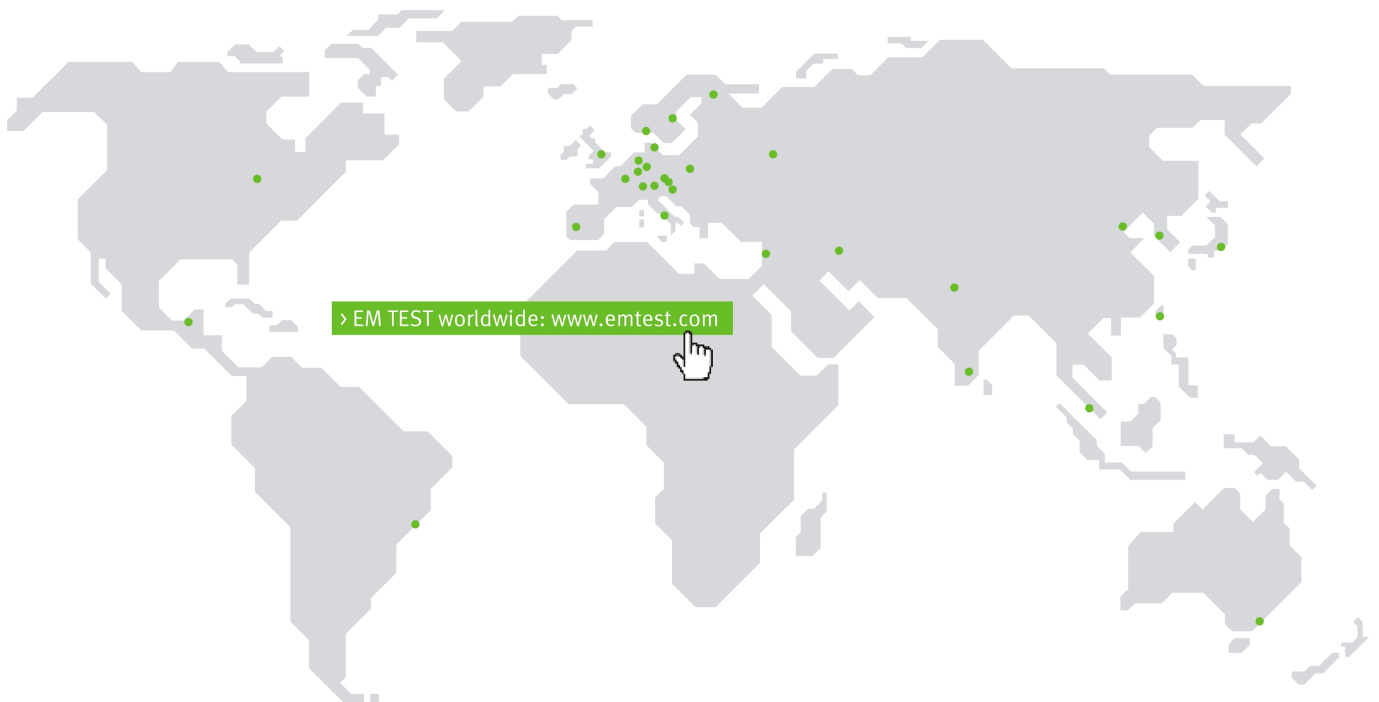
### INTERFACES

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

### GENERAL DATA

Temperature	0°C - 40°C
Rel. humidity	10% - 90%, non-condensing
Power supply	AC: 90V - 250V, 47Hz - 63Hz
Fuses	1A slow blow
Power	Max. 40W
Dimension	100mm x 380mm x 390mm
Weight	6kg

# COMPETENCE WHEREEVER YOU ARE



## CONTACT EM TEST DIRECTLY

### Switzerland

EM TEST AG › Sternenhofstraße 15 › 4153 Reinach › Switzerland  
 Phone +41 (0)61/7179191 › Fax +41 (0)61/7179199  
 Internet: [www.emtest.ch](http://www.emtest.ch) › E-mail: [sales@emtest.ch](mailto:sales@emtest.ch)

### Germany

EM TEST GmbH › Lünener Straße 211 › 59174 Kamen › Deutschland  
 Phone +49 (0)2307/26070-0 › Fax +49 (0)2307/17050  
 Internet: [www.emtest.com](http://www.emtest.com) › E-mail: [info@emtest.de](mailto:info@emtest.de)

### France

EM TEST FRANCE › Le Trident - Parc des Collines › Immeuble B1 - Etage 3 ›  
 36, rue Paul Cézanne › 68200 Mulhouse › France  
 Phone +33 (0)389 31 23 50 › Fax +33 (0)389 31 23 55  
 Internet: [www.emtest.fr](http://www.emtest.fr) › E-mail: [info@emtest.fr](mailto:info@emtest.fr)

### P.R. China

EM TEST Representative Office Beijing › Rm 913, Leftbank ›  
 No. 68 Bei Si Huan Xi Lu › Haidian District › Beijing 100080 › P.R. China  
 Phone +86 (0)10 82 67 60 27 › Fax +86 (0)10 82 67 62 38  
 Internet: [www.emtest.com](http://www.emtest.com) › E-mail: [emtestbj@public.bta.net.cn](mailto:emtestbj@public.bta.net.cn)

### Malaysia

EM TEST (M) SDN BHD › Unit B2-6, Jalan Dataran SD2 › Dataran SD2, PJU9 ›  
 Bandar Sri Damansara › 52200 Kuala Lumpur › Malaysia  
 Phone +60 (03)62 73 22 01 › Fax +60 (03)62 74 22 01  
 Internet: [www.emtest.com](http://www.emtest.com) › E-mail: [sales@emtest.com.my](mailto:sales@emtest.com.my)

### Poland

EM TEST Polska › ul. Lema 33, 26-613 Radom › Polska  
 Phone +48 518 64 35 12 › E-mail: [info.polska@emtest.de](mailto:info.polska@emtest.de)

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