

MPG 200S5

MICROPULSE GENERATOR



FOR TESTS ACCORDING TO ...

- › ISO 7637-2:1990
- › Renault 36.00.400/B
- › Volvo EMC Requirements (1998)

MPG 200S5 - AUTOMOTIVE MICROPULSE GENERATOR

Micropulses occur on the battery supply system when an inductive load is disconnected from the DC supply. These pulses are of a medium energy content having a rise time in the low microsecond range and a duration of several tenth or hundreds/thousands of microseconds. Their polarity depends on whether the inductive load is of a passive (e.g. a heater) or an active type (e.g. a DC motor).

The MPG 200S5 has a built-in battery switch to interrupt the DC supply voltage as required by the standards and is specifically designed to generate pulses up to 1,100V.

HIGHLIGHTS

- › **STANDALONE TEST GENERATOR**
- › **TEST VOLTAGE UP TO 1,100V**
- › **6 DIFFERENT SOURCE IMPEDANCE VALUES**
- › **BUILT-IN ELECTRONIC BATTERY SWITCH**
- › **BUILT-IN CDN 60V/25A DC**
- › **FRONT PANEL OPERATION**
- › **STANDARD TEST ROUTINES**

APPLICATION AREAS

-  **AUTOMOTIVE**
-  **TELECOM**

TECHNICAL DETAILS

PULSE SPECIFICATION

Voltage (o.c.)	U = 50V - 1,100V ± 10%
Int. resistor	selectable 2ohm, 4ohm, 10ohm, 20ohm, 30ohm, 50ohm other values: by external plug-in modul
Polarity	Positive/negative

PULSE 1 (24V) ISO 7637-2:1990

Voltage (o.c.)	50V - 1,100V
Rise time	3us +0%/-50% (10 - 90%)
Pulse duration	1ms ± 10% (10 - 10%)
Int. resistor	50ohm ± 10%

PULSE 2 (12V/24V) ISO 7637-1/-2:1990

Voltage (o.c.)	50V - 1,100V
Rise time	1us +0%/-50% (10 - 90%)
Pulse duration	50us ± 10% (10 - 10%)
Int. resistor	2ohm ± 10%

TRIGGER

Automatic	Automatic release of the pulses
Repetition rate	0.2s - 99.0s
Manual	Manual release of a single pulse
External	External release of a single pulse
Supply switch	Off time, selectable; 0 - 10,000ms

OUTPUT

DUT supply +/-	Safety laboratory connectors
Coupling	To the battery +line
Decoupling	Via diode and battery supply switch
DUT supply	max. 60V/25A

TEST ROUTINES

Quick Start	Immediate start; easy-to-use and fast
User Test routines	1. Custom made test routines 2. Change voltage after n pulses
Standard Test routines	1. Tests as per ISO 7637 (12V) 2. Tests as per ISO 7637 (24V)
Service	Service, setup, self test

INTERFACE

Serial interface	RS 232, baud rate 1,200 - 19,200
Parallel interface	IEEE 488, address 1 - 30
CN interface	To control external coupling network

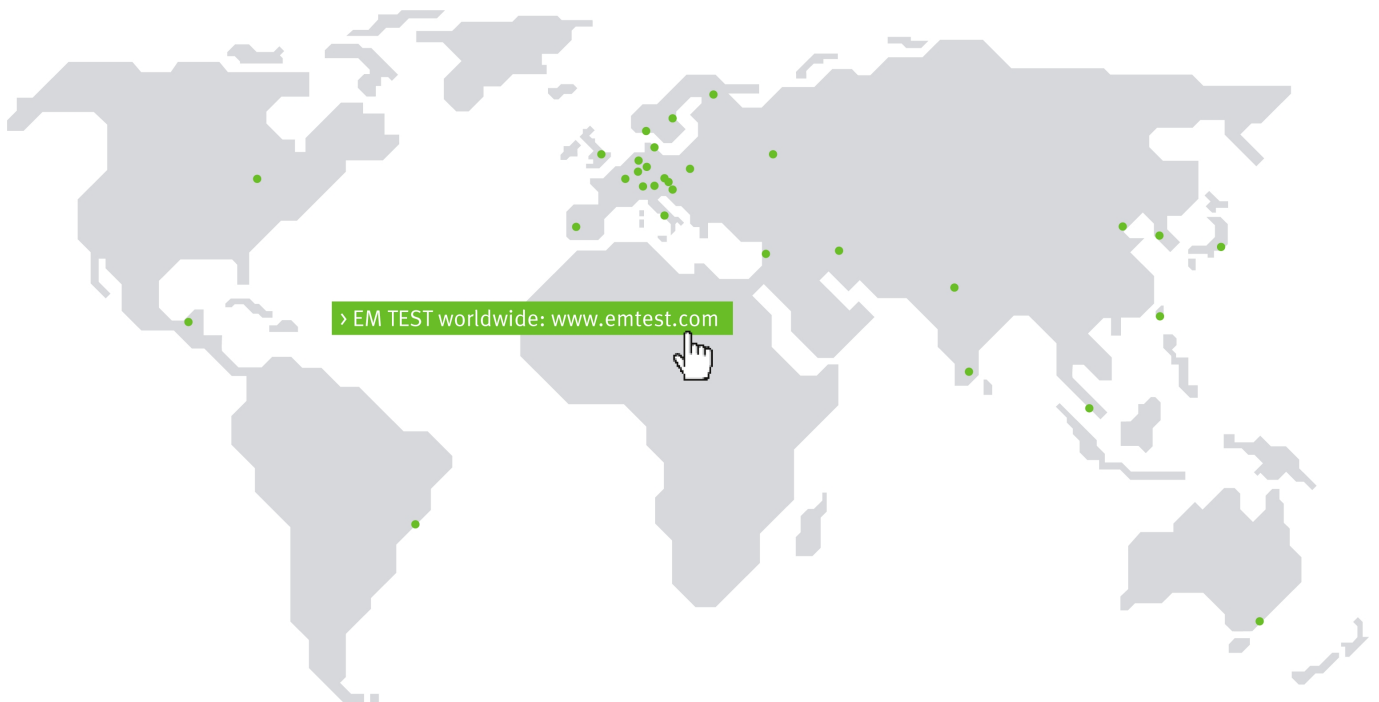
GENERAL DATA

Dimensions, weight	19"/3HU, approx. 20kg
Supply voltage	115/230V +10/-15%
Fuses	2 x T 1AT

OPTIONS

ISMISO	Software to control the test, including standard library, test report facility and data conversion generator
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COMPETENCE WHEREEVER YOU ARE



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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.