

# MPG 200S20

## MICROPULSE GENERATOR



### FOR TESTS ACCORDING TO ...

- › GOST 28751-90
- › ISO 7637-1:1990

### MPG 200S20 - 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 200S20 has a built-in battery switch to interrupt the DC supply voltage as required by the standards. It is designed to generate pulses 1b and 6 as per GOST standard 28751-90 as well as pulse 6 as per ISO 7637-1:1990.

### HIGHLIGHTS

- › **Standalone test generator**
- › **Test Voltage up to 1,100V**
- › **Includes 30, 50, 100, 150 and 200ohm source impedance**
- › **Built-in electronic battery switch**
- › **Built-in CDN 60V/25A DC**
- › **Front panel operation**

### APPLICATION AREAS

-  AUTOMOTIVE
-  TELECOM

## TECHNICAL DETAILS

### PULSE SPECIFICATIONS

Voltage (o.c.)	U = 50V - 1,100V ± 10%
Int. resistor	selectable 30ohm, 50ohm, 100ohm, 150ohm, 200ohm other values: by external plug-in modul
Polarity	Positive/negative

### GOST PULSE 1B (24V)

Voltage (o.c.)	50V - 1,100V
Rise time	9us +0%/- 50% (10 - 90%)
Pulse duration	1 ms ± 10% (10 - 10%)
Int. resistor	50ohm ± 10%

### ISO PULSE 6 (12V/24V)

Voltage (o.c.)	25V - 400V
Rise time	60us +0%/-50% (10 - 90%)
Pulse duration	300us ± 10% (10 - 10%)
Int. resistor	30ohm ± 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	Change voltage after n pulses
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"/6HU, approx. 20kg
Supply voltage	115/230V +10/-15%
Fuses	2 x T 1AT

### OPTIONS

ISMISO	Software control the test, including standard library, test report facility and data conversion generator
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# COMPETENCE WHEREVER 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. Subject to change without further notice.