

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



CONTACT EM TEST DIRECTLY

Switzerland

AMETEK CTS GmbH › Sternenhofstraße 15 › 4153 Reinach › Switzerland
Phone +41 (0)61 204 41 11 › Fax +41 (0)61 204 41 00
Internet: www.ametek-cts.com › E-mail: sales.conducted.cts@ametek.com

Germany

AMETEK CTS Europe GmbH › Customer Care Center EMEA › Lünener Straße 211
› 59174 Kamen › Germany
Phone +49 (0) 2307 26070-0 › Fax +49 (0) 2307 17050
Internet: www.ametek-cts.com › E-mail: info.cts.de@ametek.com

Poland

AMETEK CTS Europe GmbH › Biuro w Polsce › ul. Twarda 44 › 00-831 Warsaw › Poland
Phone +48 (0) 518 643 12
Internet: www.ametek-cts.com › E-mail: Infopolska.cts@ametek.com

USA / Canada

AMETEK CTS US › 52 Mayfield Ave › Edison › NJ 08837 › USA
Phone +1 732 417 0501
Internet: www.ametek-cts.com › E-mail: usasales.cts@ametek.com

P.R. China

AMETEK Commercial Enterprise (Shanghai) Co. Ltd. › Beijing Branch › Western Section, 2nd floor › Jing Dong Fang Building (B10) › Chaoyang District › Beijing, China, 100015
Phone +86 10 8526 2111 › Fax +86 (0)10 82 67 62 38
Internet: www.ametek-cts.com › E-mail: chinasales@ametek.com

Republic of Korea

EM TEST Korea Limited › #405 › WooYeon Plaza › #986-8 › YoungDeok-dong › Giheung-gu › Yongin-si › Gyeonggi-do › Korea
Phone +82 (31) 216 8616 › Fax +82 (31) 216 8616
Internet: www.emtest.co.kr › E-mail: sales@emtest.co.kr

Singapore

AMETEK Singapore Pte. Ltd › No. 43 Changi South Avenue 2 › 04-01 Singapore 48164
Internet: www.ametek-cts.com › E-mail: singaporesales.cts@ametek.com

Great Britain

AMETEK GB › 5 Ashville Way › Molly Millars Lane › Wokingham › Berkshire RG41 2 PL › Great Britain
Phone +44 845 074 0660
Internet: www.ametek-cts.com

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.