

TSS 500 N2B

TELECOM SURGE GENERATOR



FOR TESTS ACCORDING TO ...

› Bellcore GR-1089-Core

TSS 500N2B - TELECOM SURGE SIMULATOR AS PER TELCORDIA/BELLCORE GR-1089, 10/1,000US

The surge simulator type TSS 500N2B generates high voltage transients with a waveform of 10/1,000 μ s up to 2,000V as required by Tellcordia/Bellcore GR-1089 issue 6 section 4.6.2.1 First Level Lightning Surge.
For this test application a huge energy storage capacitor bank is needed to provide the requested high-energy surge pulses.

HIGHLIGHTS

- › Standalone Tester for Bellcore
- › Test pulse 10/1000 μ s up to 2,000V
- › Covers First Level Lightning Protection testing
- › Voltage and current monitor outputs
- › Pre-programmed Test routines
- › Manual operation
- › USB and GPIB interface

APPLICATION AREAS

-  COMPONENTS
-  TELECOM

TECHNICAL DETAILS

FIRST LEVEL LIGHTNING PROTECTION, PULSE 10/1,000 S

Output Voltage (open circuit)	100V to 2,000V -0/+15%
Rise time t_r	10 μ s -4 μ s/+0 μ s
Pulse duration t_d	1,000 μ s -0 μ s/+500 μ s
Output Current (short circuit)	10A to 200A per wire, -0/+15%
Rise time	10 μ s -4 μ s/+0 μ s
Pulse duration	1,000 μ s -0 μ s/+500 μ s
Polarity	Positive, negative or alternating
Energy storage capacitance	4,230 μ F
Max. stored energy	8,460J @ 2,000V

OUTPUTS

Telecom ports	T1, T2, T3 and T4
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MEASUREMENTS

Peak voltmeter	2,000V +10%/-10%
Peak current meter	800A +10%/-10%

TRIGGER

Automatic	Automatic pulse release
Manual	Single pulse release
External	External pulse release
CRO trigger	5V trigger signal for oscilloscope

TEST ROUTINES

Quick Start	Immediate start; easy to use and fast
User Test routines	Change voltage after n pulses Change Polarity after n pulses
Service	Service, setup, self test

INTERFACE

Serial interface	USB
Parallel interface	IEEE 488, addresses 1 to 30

SAFETY

Safety circuit	Control input (24Vdc)
Warning lamp	Floating output contact

GENERAL DATA

Dimensions, weight	19"/25HU mini rack, approx. 120kg
Supply voltage	115V / 230V +10/-15% 50/ 60Hz
Fuses	2 x 2AT

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.