

CWS 500N4

SIMULATOR FOR CONDUCTED, COMMON-MODE DISTURBANCES, 0HZ (DC) TO 150KHZ



FOR TESTS ACCORDING TO ...

- > IEC 60533
- > IEC 61000-4-16
- > IEC 61326
- > IEC 61543
- > IEC 61850-3

CWS 500N4 - TESTING FOR IMMUNITY TO CONDUCTED, COMMON-MODE DISTURBANCES

The CWS 500N4 is the state-of-the-art solution in a compact single-box design to test for immunity to conducted, common mode disturbances in the frequency range 0Hz (DC) to 150kHz. Such test requirements are specified in IEC 61000-4-16 and cover continuous mode testing as well as short term testing with DC, 16 2/3Hz, 50Hz and 60Hz with 4 test levels each plus a sweep mode from 15Hz to 150kHz.

Complemented by an AC voltage source and a motor variac the CWS 500N4 forms a complete test systems allowing to couple the disturbance signals onto the various types of lines by means of the specified coupling networks.

HIGHLIGHTS

- > **MOST COMPACT EQUIPMENT FOR COMMON-MODE DISTURBANCES AS PER IEC 61000-4-16**
- > **BUILT-IN LF SIGNAL GENERATOR AND LF AMPLIFIER**
- > **SWEEP MODE CAPABILITY 15HZ TO 150KHZ**
- > **BUILT-IN RECTIFIER MODULE FOR DC TESTING**
- > **BUILT-IN VOLTAGE METER (RMS VALUES)**
- > **BUILT-IN SEMICONDUCTOR POWER SWITCH**

APPLICATION AREAS

-  INDUSTRY
-  RESIDENTIAL

TECHNICAL DETAILS

OUTPUT CHARACTERISTICS CONTINUOUS MODE

Test frequencies	DC, 16 2/3Hz, 50Hz and 60Hz
Signal level	0.1 - 30Vrms or DC
Test level 1	1V continuous
Test level 2	3V continuous
Test level 3	10V continuous
Test level 4	30V continuous
Generator impedance	50ohm

OUTPUT CHARACTERISTICS SHORT-TERM MODE

Test frequencies	DC, 16 2/3Hz, 50Hz and 60Hz
Signal level	0.1 - 300Vrms or DC
Test level 1	10V for 1s duration
Test level 2	30V for 1s duration
Test level 3	100V for 1s duration
Test level 4	300V for 1s duration
Generator impedance	50ohm

OUTPUT CHARACTERISTICS 15HZ - 150KHZ

Frequency range	15Hz to 150kHz
Signal level	0.1 to 30Vrms
Test level 1	1V - 0.1V - 1V
Test level 2	3V - 0.3V - 3V
Test level 3	10V - 1V - 10V
Test level 4	30V - 3V - 30V
Output impedance	50ohm

MEASUREMENT

Voltage	internal rms measurement
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TEST ROUTINES

Quick Start	Immediate start; easy to use and fast discrete frequency testing
Service	Service, Set-up

INTERFACE

Serial interface	USB
Parallel interface	IEEE 488, addresses 1 - 30
Fail 1	BNC input; test will be stopped immediately (when input becomes active low)
Fail 2	BNC input; test will be stopped (when input becomes active low) and continued (input active high). After 10 fail events the test will be stopped.

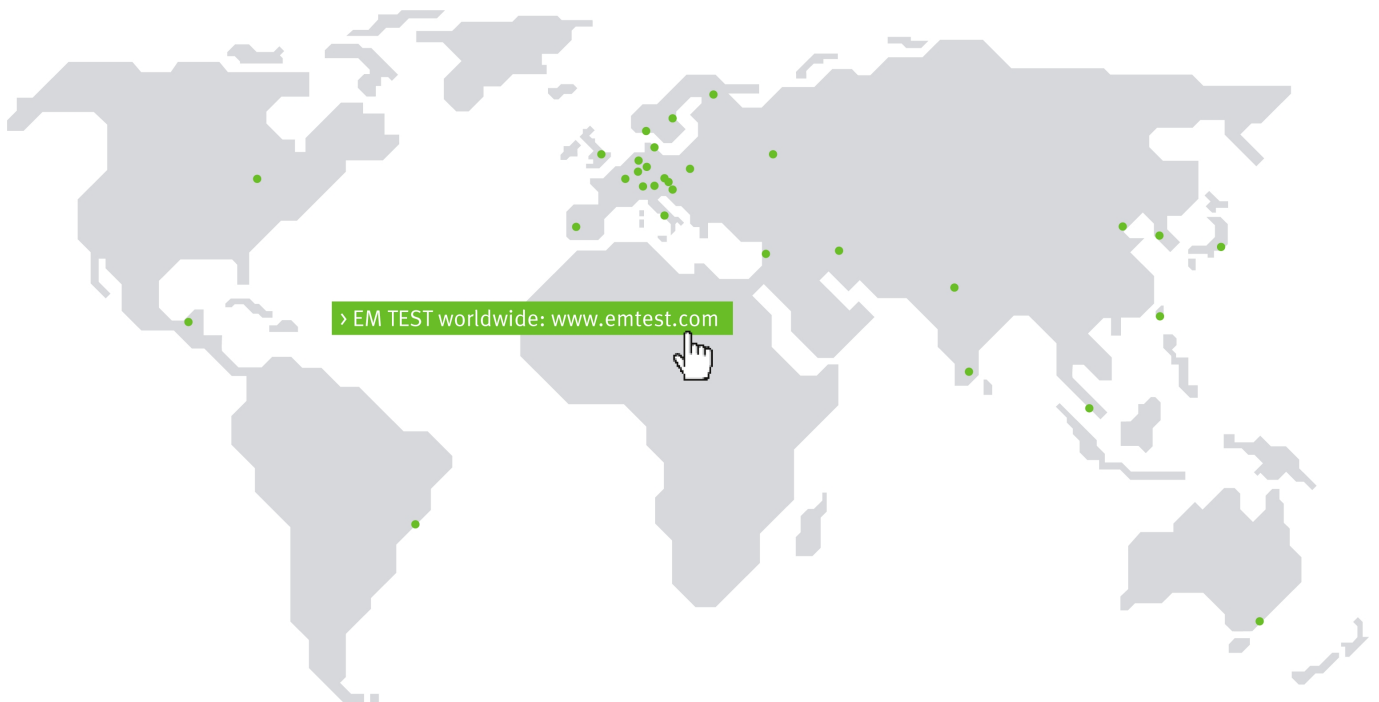
GENERAL DATA

Dimensions	19"/6HU, 555mm x 448mm x 286mm
Weight	Approx. 30kg
Supply voltage	115V - 230V +10/-15%, 50/60Hz
Input power	Max. 600W
Fuses	2x6.3AT (115V) or 2x3.15AT (230V) 2x10AT for AC-source
Cooling	Active cooling, air ventilation
Temperature	10°C - 40°C

ACCESSORIES

CN L2/L4-16	2-wire/4-wire coupling network, switchable
CDN T2-16	Telecom T-network
CN 16-x	Coupling network as per customer specification
AC power source	0 - 300VAC / 2,000W; Controlled by CWS 500N4 via serial interface
External motor variac	Controlled by CWS 500N4 via 0-10V analog output
icd.control	Extensive and most versatile remote control and reporting software. A standard library helps to configure the test setup. Multiple interruption functions automated by IEEE instruments or manually. Easy to use or expandable to complex test routines on the base of vector definitions.

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 › E-mail: 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 › E-mail: 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 › E-mail: 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 › E-mail: 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 › E-mail: 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

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.