



COMPACT NX5

FIRST OF ITS KIND. SHOWS ITS TRUE COLORS. THINKS FOR ITSELF.

ARE YOU READY FOR A NEW GENERATION? COMPACT NX5.



**/ MORE CONVENIENCE.
/ MORE SAFETY.
/ MORE TIME SAVINGS.**



WELCOME TO YOUR NEW TESTING EXPERIENCE: COMPACT NX5.



1/  **MORE CONVENIENCE:
COLOR-CODED TESTS WITH
TOUCH SCREEN OPERATION.**



2/  **ANY WAY YOU WANT:
CUSTOMIZE YOUR OWN TESTS
& SEQUENCES.**



3/  **VERSATILE CONNECTIONS:
WITH STATE-OF-THE-ART
INTERFACES.**



INTELLIGENT TESTING MADE EASY: 1 FINGER FOR 1,000 TESTS.



1 QUICK CHANGE:
To select another function, just tap it on the main menu.



4 EUT SETUP:
Pole position: Now, your EUT determines the sequence.



2 COLOR-CODED MENUS:
Each test type has its own color. Simply distinctive.



5 DOCUMENT YOUR TEST:
Detailed reports with test pulse graphics or photos of the test.



3 FAST AND CONVENIENT SETUP:
User friendly keypads for entering custom values.



6 STATUS AND EUT MONITORING:
Always up to date.



MORE INTERFACES. MORE INDIVIDUALITY. MORE OPTIONS!



INTEGRATED STANDARDS LIBRARY:
Ensure compliance with quick access
to pre-stored test standards.



CUSTOMIZED TESTING:
Generate and save your own test files
easily and reliably.



EASY IMPORT AND EXPORT:
Documents and photos of the test setup im-
ported or exported in a few simple steps.



SAFE TESTING:
Secure Ethernet/OptoLink
connection.



FOR ALL LOVERS OF DETAILS:

TECHNICAL DATA – COMPACT NX5.



HIGHLIGHTS

More convenience

- › Intelligent touch-screen operation
- › Modern connection architecture
- › Quiet operation
- › Push-turn dial
- › Multilingual – choose your preferred language

More safety

- › Modern operating system ensures long-term viability
- › Comprehensive, integrated standards library
- › Visualization of test pulses and setups
- › EUT power monitoring (current/voltage/ power and frequency monitoring) in real time
- › Differential synchronization up to 690 V

More time savings

- › EUT setup: Your EUT determines the sequence and parameters
- › em.log: Test data log allows selective checks and re-testing
- › TEST-LINK: Create and automate your own test sequences
- › Easy import and export of test specifications

COMPACT NX MODULES

The new compact NX5 is the most versatile tester for meeting transient and power-fail requirements according to international (basic and generic) and product/product family standards.

The compact NX5 is the most economical solution for fully compliant immunity tests and CE marking. A built-in CDN is used for testing single-phase EUTs, while tests on three-phase EUTs can be performed by adding a fully controlled external coupling network up to 200 A. EM TEST supplies a wide range of accessories for nearly all test procedures and applications.

STANDARDS AND APPLICATIONS

- › IEC 60255-1
 - › IEC 60601-1-2
 - › IEC 61326
 - › IEC 61850-3
 - › IEC/EN 61000-4-4
- › IEC/EN 61000-4-5
 - › IEC/EN 61000-4-8
 - › IEC/EN 61000-4-9
 - › IEC/EN 61000-4-11
 - › IEC/EN 61000-4-29
- › EN 61000-6-1
 - › EN 61000-6-2
 - › EN 55014-2
 - › EN 61547



COMPACT NX MODULES

BURST EFT/NX5		Acc. to IEC/EN 61000-4-4 and IEC/EN 61000-6-1/2
Test voltage		200 V–5,500 V ± 10%; 100 V–2,750 V ± 10% at 50 Ω load
Pulse shape		5/50 ns at 50 Ω and 1,000 Ω
Pulse triggering		Automatic, manual, external
Polarity		Positive/negative/alternating
Synchronization		0°–360°, resolution 1°, (16–500 Hz)
Output	Direct	Via 50 Ω coaxial

SURGE VCS/NX5		Acc. to IEC/EN 61000-4-5 and IEC/EN 61000-6-1, -6-2
Voltage (o.c.)		160 V–5,000 V ± 10%
Current (s.c.)		Max. 2,500 A ± 10%
Rise time		1.2 µs ± 30%
Decay time to half value		50 µs ± 20%
Rise time		8 µs ± 20%
Decay time to half value		20 µs ± 20%
Pulse triggering		Automatic, manual, external
Polarity		Positive/negative/alternating
Synchronization		0°–360°, resolution 1°, asynchronous
Repetition rate		Max. 1 Hz (1 s–9,999 s)
Output	Direct	Via HV connectors to external coupling network

POWER-FAIL		Acc. to IEC/EN 61000-4-11, -4-29 and IEC/EN 61000-6-1/-2
Channel PF1/PF2		Voltage: max. 300 V AC / DC Current: max. 16 A AC / DC
Frequency		16 Hz–500 Hz and DC
Switching time		< 5 µs at 100 Ω resistive load
Inrush current		> 500 A
Trigger		Automatic, manual, external
Synchronization		0°–360°, resolution 1° (16–500 Hz), asynchronous
Output	EUT terminals Trigger	L, N and PE 5 V trigger signal for oscilloscope

GENERAL DATA	
Serial interface	2 x USB A/1 x USB B OptoLink
Network	Ethernet
Sys.Link	26-pin high density connector to control external devices
Fail inputs	EUT monitoring via inputs (one each) EUT monitor 1 EUT monitor 2
Ext. sync input	Differential input 50 V–690 V AC, 2 x 4 mm MC safety Connector
Dimensions	19", 3 HU
Weight	21.8 kg

THE FUTURE STARTS NOW: COMPACT NX5. CONTACT US TODAY.



LEARN MORE AT:
www.emtest.com

China

E & S Test Technology Limited › Rm 913, Leftbank
No. 68 Bei Si Huan Xi Lu › Haidian District › Beijing 100080 › P.R. China
Phone +86 (0)10 8267 6027 › Fax +86 (0)10 8267 6238
Internet www.emtest.com › E-mail info@emtest.com.cn

France

EM TEST France › Le Trident - Parc des Collines › Immeuble B1 - Etage 3
36, rue Paul Cézanne › 68200 Mulhouse › France
Phone +33 (0)389 312350 › Fax +33 (0)389 312355
Internet www.emtest.fr › E-mail info@emtest.fr

Germany

AMETEK CTS Germany GmbH › Lünener Straße 211 › 59174 Kamen › Germany
Phone +49 (0)2307 260700 › Fax +49 (0)2307 17050
Internet www.emtest.com › E-mail info.emtest@ametek.de

Japan

AMETEK Co., Ltd. Nagoya Office › 1-329 Kifune Meito-ku Nagoya-shi
Aichi-ken, 465-0058 › Japan
Phone +81 (0)52 709 5501 › Fax +81 (0)52 709 5502
Internet www.emtest.com › E-mail cts-japan.sales@ametek.co.jp

Poland

EM TEST Polska › ul. Ogrodowa 31/35, 00-893 Warszawa › Poland
Phone +48 (0)518 643512 › Fax +48 (0)518 643512 w. 4
Internet www.emtest.com/pl › E-mail infopolska.emtest@ametek.com

Republic of Korea (South Korea)

EM TEST Korea Limited › RM 405 › WooYeon Plaza › #986-8
YoungDeok-dong › Giheung-gu › Yongin-si › Gyeonggi-do › Korea
Phone +82 (31) 216 8616 › Fax +82 (31) 216 8618
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 486164 › Singapore
Phone +65 6484 2388 › Fax +65 6481 6588
Internet www.emtest.com › E-mail singapore.sales.cts@ametek.com

Taiwan

AMETEK Compliance Test Solutions › 3F.-2, No. 92, Baozhong Rd
Xindian Dist. › New Taipei City 231 / Taiwan (R.O.C.)
Phone +886 2 2917 8080 › Fax +886 2 2917 2626
Internet www.emtest.com › E-mail taiwansales.cts@ametek.com

USA

AMETEK Compliance Test Solutions › 52 Mayfield Ave. Edison, NJ 08837, USA
Phone +1 732 417 0501 › Fax +1 732 417 0511 › Toll free: +1 888 417 0501
Internet www.emtest.com › E-mail usasales.cts@ametek.com