emtest
the benchmark for emc

COMPACT NX5

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

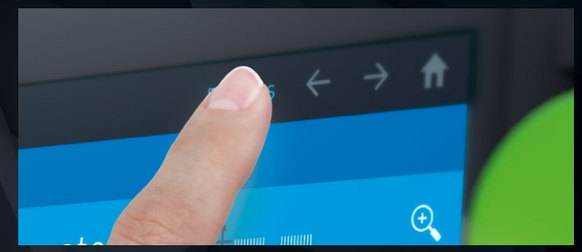
AMETEK®
COMPLIANCE TEST SOLUTIONS

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 WITH EM TEST:
INTELLIGENT TOUCH SCREEN OPERATION MAKES IT POSSIBLE.



2/ ANYTHING YOU WANT:
CUSTOMIZE YOUR OWN TESTS & SEQUENCES.

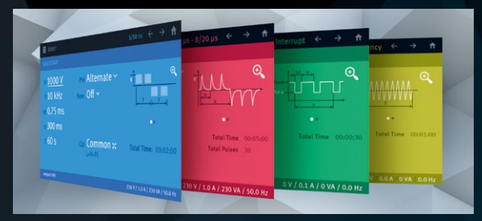
3/ PROTECTS YOUR CONNECTION:
WITH STATE-OF-THE-ART INTERFACES.

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

ONE-TOUCH DIRECT SELECTION
OF ANY MEASUREMENT:
YOUR NEW CONTROL CENTER.

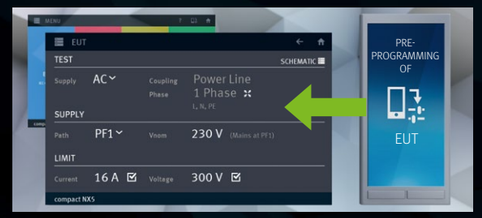
1 QUICK CHANGE:
To select another function, just tap on it in the main menu.

2 MENUS IN SIGNAL COLORS:
Each phenomenon has its own color. Simply distinctive.



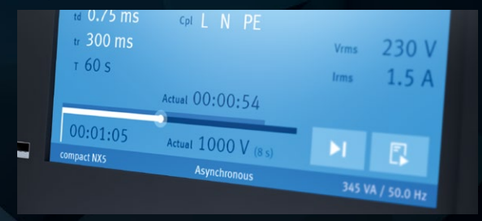
3 SAFE AND RELIABLE MEASUREMENTS:
User friendly keypads take you instantly to the right value.

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



5 INDIVIDUAL CONFIGURATION:
Easy integration of test pulse graphics or photos of the test

6 STATUS AND EUT MONITORING:
Always up to date.



MORE INTERFACES.
MORE INDIVIDUALITY.
MORE OPTIONS!

INTEGRATED STANDARDS LIBRARY:
Unfailing compliance with all requirements.

CUSTOMIZED TESTING:
Generate and save individual test files easily and reliably.

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

SAFE TESTING:
Secure Ethernet/OptoLink connection.

FOR ALL LOVERS OF DETAILS:
TECHNICAL DATA – COMPACT NX5.

DIE HIGHLIGHTS

More convenience
› Intelligent multi-touch operation
› Modern connection architecture
› Quiet operation
› Push-turn cursor
› Multilingual – choose your preferred language

More safety
› Comprehensive, integrated standards library
› Visualization of test pulses and setups
› EUT power monitoring (current/voltage/power and frequency monitoring) in real time
› Modern operating system ensures long-term viability
› 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 Simulator is the most versatile tester for covering 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 an automatically 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

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

LEARN MORE AT:
www.emtest.com

ALAVA INGENIEROS

Edificio Antalia
Albasanz, 16
28037 MADRID
Tel. 91 567 97 00
Fax: 91 570 26 61

Torre Mapfre-Vila Olímpica
Marina, 16 - Planta 11-C 2
08005 BARCELONA
Tel. 93 459 42 50
Fax: 93 459 42 62

www.alavaingenieros.com
alava@alava-ing.es