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Test & Measurement

- sales
- rentals
- calibration
- repair
- disposal

Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

If you click on the “Click-to-Call” logo below, you can call us for FREE!

TMG Corporate Website

TMG Products Website



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ECOMPACT4

Compact Immunity Tester

■ **The ECOMPACT4** combines the best of all worlds: Performance, flexibility, economy, and the famous Haefely quality and reliability



The ECOMPACT4 is an ultra compact immunity tester that performs all the most commonly used transient immunity tests, including Surge, EFT, Dips/Interrupts, and AC/Surge Magnetic Field. The simplified user interface provides quick selection of tests and test levels, and even lets you change test parameters "on the fly" while running a test.

The actual EUT power mains voltage and current are indicated in the display. The user can set an upper limit for EUT power mains current. This feature is useful to protect the EUT from unnecessary damage. By using the integrated safety-circuit and warning-lamp functions a high degree of operator safety is guaranteed.

The included "EMV-Check" software is compatible with all latest windows versions, and allows full automation of the test routine as well as data gathering and test report generation.

Whether you test to the IEC 61000 series "CE Mark" standards, the IEC 60601 Medical Device standards, or any number of telecom and product specific standards, the ECOMPACT 4 tester is your one stop test station for product development testing.

A wide range of cost-efficient Coupling / Decoupling Networks for symmetrical and asymmetrical data- and signal-lines is available as an option.

With a 100 year history of innovation, service centers on three continents, and a full staff of development and support engineers, Haefely is the clear choice for all your transient immunity test needs.

FEATURES

- Up to **6 complete EMC immunity standards** in a **single test station**
 - IEC 61000-4-4 Ed.2 Electrical Fast Transient
 - IEC 61000-4-5 Ed.2 Surge Combi Wave
 - IEC 61000-4-8 AC Magnetic Field
 - IEC 61000-4-9 Surge Magnetic Field
 - IEC 61000-4-11 Ed.1 & 2 Dips & Interrupts
 - IEC 61000-4-29 DC Dips
- According to the latest editions of: IEC 61000-4-4 & IEC 61000-4-11
- Integrated 1-Phase Coupling Decoupling Network
- Optional automated 3-Phase 16A Coupling Decoupling Network for Surge & EFT available
- Test routine Storage and Recall
- Windows 98/2000/XP Software Included

BENEFITS

Multi-purpose – All basic immunity tests combined in a single economical package for maximum flexibility.

Quick and Simple – One touch operation and simple automation of test routines streamlines the test procedure.

Test Reporting – Included Windows software automatically documents test parameters and results

Reliable and Economical – World-renowned Haefely quality, reliability, service and support in a budget-friendly package.

APPLICATIONS

Full Compliance and Pre-Compliance testing to a wide variety of transient immunity standards:

- IEC 61000-4-X "CE Mark" Basic Standards
- IEC 60601 for Medical Equipment
- IEC, ANSI, ITU, UL Product Standards

TECHNICAL SPECIFICATION

System Mainframe			
Control Power	100/115/230V 50/60 Hz	Dimensions (W x H x D)	48 x 18 x 44 cm
Memory Storage	20 positions	Weight	30 kg
Communication Interface	RS232, RS485		

IEC / EN 61000-4-4 Edition 2 Electrical Fast Transient			
Output Voltage	0.2 – 4.2 kV	Spike Frequency	0.5 – 100 kHz
Polarity	Positive and Negative	Burst Duration	0.75 – 130 ms
Output Impedance	50 Ohms	Burst Period	10 – 2400 ms
Rise Time	5 ns +/- 30%	Spikes per Second	Max. 2500 at U < 3 kV Max. 1250 at U = 3 kV to 4.2 kV
Impulse Duration	50 ns +/- 30% (50 Ohms) 50 ns -15 +100 ns (1 kOhm)	Integrated Single Phase Coupling Decoupling Network	33 nF coupling capacitance 1.5 mH decoupling inductance 230V AC/60V DC, 16A

IEC / EN 61000-4-5 Surge Combination Wave			
Output Voltage	0.2 – 4.2 kV	Output Current	0.1 – 2.1 kA
Voltage Rise Time	1.2 us +/- 30%	Current Rise Time	8 us +/- 20%
Voltage Duration	50 us +/- 20%	Current Duration	20 us +/- 20%
Polarity	Positive and Negative	Repetition Rate	10 s – 999 s
Output Impedance	2 Ohms	Integrated Single Phase Coupling Decoupling Network	230V AC/60V DC, 16A According to IEC/EN 61000-4-5 Edition 1 & 2
Synchronization	0 – 359 deg, 1 deg res		

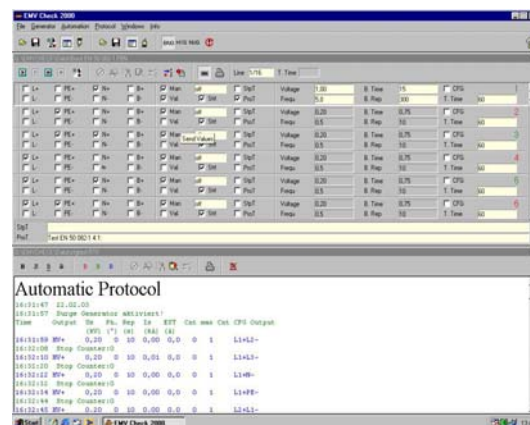
IEC / EN 61000-4-11 Edition 1 & 2 and IEC / EN 61000-4-29 Dips and Interrupts			
Max. Voltage	250V AC/DC	Interrupt Time	0.1 ms – 998 s
Max. Current	16A AC/DC	Repetition Time	0.2 ms – 999 s
Dip Levels	0%, 40%, 70%, 80%	Phase Synch.	0 – 359 degree asynchronous

ECOMPACT4 ART. NO. 249100

Qty. 1 ECOMPACT 4 Immunity Tester
Qty. 1 Safety Circuit Connector
Qty. 1 User Manual
Qty. 1 Power, EUT Power & Control Cable
Qty. 1 EMV-Check Software Diskette

OPTIONS & ACCESSORIES

ECOUPLER4 3 Phase CDN 440V Phase to Phase 16A
rms cont/25A rms short-time
PCD121 Surge Coupling Network for Symmetrical
Data and Control Lines
PCD126 Surge Coupling Network for Asymmetrical
Data and Control Lines
IP4A EFT Capacitive Coupling Clamp
MFS100 Magnetic Field Test Set up to
1000 A/m Surge & 100 A/m Power
Frequency, incl. 1x1m coil & stand



"EMV-Check Automated Test Software"

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