

# **axos<sup>5</sup>** EXPANDABLE TEST SYSTEM

## EFT/BURST TEST SYSTEM



SURGE



EFT / BURST



VOLTAGE DIPS



MAGNETIC FIELD



[www.axos.haefely.com](http://www.axos.haefely.com)

## SUMMARY

The AXOS<sup>5</sup> EFT/Burst Test System is a state of the art stand-alone EFT impulse generator. Created after the successful AXOS<sup>5</sup> Compact Immunity Test System, the AXOS<sup>5</sup> EFT/Burst Test System incorporates all the best features of our well-known and proven PEFT-series with the addition of a new touch screen interface for superior functionality. It is both cost-effective and fully compliant with the IEC/EN 61000-4-4 standards. It also comes equipped with all the hardware needed for instant upgrades with optional key codes. These key codes can be entered with ease to expand the test capabilities of the AXOS<sup>5</sup> Burst/EFT Test System, including AC/DC Dips Interrupts, Surge Combination Wave (1.2/50µs...8/20µs), and Impulse Magnetic Field.

Furthermore, it has a built-in 16A single phase coupling/decoupling network (CDN). This single phase system can also be expanded to a three phase system with our optional 32A or 100A three phase CDNs. In addition, HAEFELY EMC offers a wide range of accessories for waveform verification and test applications. The flexibility provided by our accessories insures a safe investment for the future.

### FEATURES & BENEFITS

- Easy to operate with manual and automated test modes, software assisted test preparation, predefined test routines and visual aided test setups
- The sensitive touch screen guarantees reduction of time and effort at a reasonable price
- Voltage and current monitoring of EFT/Burst impulses and EUT power provides valuable feedback to the test engineer
- Automatic generation of test report, including test parameters, test setup and test result

### STANDARDS

- IEC/EN 61000-4-4 Edition 2 & 3
- IEEE/ANSI C62.41
- IEC/EN 61850-3

### APPLICATIONS

- Compliance and pre-compliance testing of electrical products
- CE marking
- Product development and debugging
- Compliance testing of telecom and wireless devices

### INDUSTRIES

- Industrial
- Residential
- Components
- Medical
- Renewable energy
- Telecom

## TECHNICAL SPECIFICATIONS

GENERAL DATA			
<b>Control power</b>	85 V - 264 V 50/60 Hz	<b>Dimensions (W x H x D)</b>	19" / 4U (45 x 18 x 49 cm)
<b>User test storage</b>	unlimited	<b>Weight</b>	25 kg
<b>Remote interface</b>	Ethernet, RJ45	<b>USB</b>	for USB memory stick
<b>Display</b>	7" / 800x480 / 24 bit with touch-screen	<b>AUX. interface</b>	D-sub 37p for external CDN, external transformer etc.
<b>External trigger input</b>	5 VTTL	<b>Synch input</b>	BNC, 10 V – 264 V AC
<b>Trigger output</b>	5 VTTL	<b>External start / stop input</b>	5 VTTL, starts / stops predefined test sequence
<b>EUT failed input</b>	5 VTTL	<b>Analog output</b>	0 – 10 V, for use with external options

IEC / EN 61000-4-4 EDITION 2 & 3			
<b>Output voltage</b>	0.2 – 5.0 kV $\pm 10\%$ at co-axial output	<b>Spike frequency</b>	1 Hz – 1 MHz
<b>Polarity</b>	pos / neg / alternate	<b>Burst duration</b>	10 $\mu$ s – 1 s
<b>Output impedance</b>	50 Ohms	<b>Burst period</b>	1 ms – 10 s
<b>Rise time</b>	5 ns $\pm 30\%$	<b>Test time</b>	1 s – 1000 minutes
<b>Impulse duration</b>	50 ns $\pm 30\%$ at 50 Ohm 50 ns –15 +100 ns at 1000 Ohm	<b>Trigger</b>	automatic, manual, external trigger input
<b>Burst mode</b>	normal, continuous, real, random	<b>Integrated single phase coupling / decoupling network</b>	264 V AC / 16 A 220 V DC / 10 A

### OPTIONS AND ACCESSORIES

FP-EFT32M	Manual 3-phase / 32A CDN EFT/Burst	2490170
FP-EFT100M	Manual 3-phase / 100A CDN EFT/Burst	2495860
IP4A	Capacitive Coupling Clamp for EFT/Burst	2491300
EFT Verification Set	Set consists of 50 Ohm and 1000 Ohm attenuator	2499951
Key Code Surge	Key Code for upgrade to Surge 1.2/50 $\mu$ s...8/20 $\mu$ s	4700814
Key Code Dips	Key Code for upgrade to AC/DC Dips and Interrupts	4700816
Calibration	Accredited calibration for AXOS <sup>5</sup> EFT/Burst Test System	2490423
Remote Control	Remote Control Software	2490440



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