

# **AXOS<sup>5</sup>**

# Expandable test systems

Datasheet





## **General Description**

The new AXOS<sup>5</sup> - Compact integrates all of the best features of our stand alone test systems into one single economic solution.

Combination Wave, 5 kV EFT/Burst, Dips & Interrupts, along with an integrated single-phase coupling / decoupling network. This allows quick and completely automated testing to the most common IEC, EN, ANSI, IEEE and UL standards.

The AXOS<sup>5</sup> can either be operated via front panel by large colour graphic interface or remotely from the PC. The easy to use menu together with the availability of predefined test routines for different standards makes testing easy and reliable, even for less fre quently users. Numerous additional functions such as external start/stop function allows easy integration of the test system also in customer specifi c test environments.

All the test parameters can be varied in a broad range wide above the requirements of the standards. Together with the ability of changing test parameters during test, AXOS<sup>5</sup> is not only the ideal product for compliance and pre-compliance testing, it is useful for monitoring & debugging function during design phase as well.

A wide range of costefficient and user friendly coupling/decoupling networks for power lines as well as for symmetrical and asymmetrical data- and signal lines are available as options.

#### Features & Benefits

- Easy to operate with manual and automated test modes, software assisted test preparation, pre-defined test routines and visual aided test setups
- Economic & Efficient
- Touch screen guarantees reduction of time and effort Experience and know-how at a reasonable price
- Safe and reliable operation by using safety interlock, warning lamp and emergency stop functions
- Voltage and current monitoring of surge impulses and EUT power provides valuable feedback to the test engineer
- Automatic generation of test report, including test parameters, test setup and test result

### **Applications**

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

#### Scope of Supply

AXOS <sup>5</sup>	Compact Immunity
AXOS <sup>5</sup>	Surge
AXOS <sup>5</sup>	EFT/Burst
AXOS <sup>5</sup>	Voltage Dips

Included accesories

- Mains Cable ٠
- **User Manual**
- Calibration certificate

- Overtesting

2490400
2490401
2490402
2490403

# **Technical Data**

General Data			
Control power	85 V - 264 V 50/60 Hz	Dimensions	19" / 4U (45 x 18 x 49 cm)
User test storage	Unlimited	Weight	25 kg
Remote interface	Ethernet, RJ45	USB	for USB memory stick
Display	7" / 800x480 / 24 bit	AUX. interface	D-sub 37p for external CDN,
	with touchscreen		external transformer etc.
External trigger input	5 V TTL	Synch input	BNC, 10 V – 264 V AC
Trigger output	5 V TTL	External start / stop	5 V TTL, starts / stops
		input	predefined test sequence
EUT failed input	5 V TTL	Analog output	0 - 10 V, for use with external
Warning lamp output	2 x 24 V / 1 A DC	Safety circuit	options stops the test when unlocked
	2 / 24 / / / / / / 00	Salety circuit	stops the test when unlocked
IEC / EN 61000-4-4 EDIT	TON 2 & 3 EFT / Burst		
Output voltage	0.2 – 5.0 kV ±10%	Spike frequency	1 Hz – 1 MHz
	at coaxial output		
Polarity	pos / neg / alternate	Burst duration	10 µs – 1 s
Output impedance	50 Ohm	Burst period	1 ms – 10 s
Rise time	5 ns ±30%	Test time	1 s- 1'000 minutes, infinite
Impulse duration	50 ns ±30% at	Trigger	automatic, manual,
	50 Ohm		external trigger input
	50 ns –15 +100 ns at 1'000 Ohm		
Burst mode	normal, continuous, real, random	Integrated single phase coupling	264 V AC / 16 A
		/ decoupling network	up to 220 V DC / 10 A
IEC / EN 61000-4-5 EDIT	ION 2 & 3 Surge combination wave		
Output voltage	0.2 – 5.0 kV ±10%	Output current	0.1 – 2.5 kA ±10%
Voltage rise time	1.2 µs ±30%	Current rise time	8 µs ±20%

Voltage rise time	1.2 μs ±30%	Current rise time	8 μs ±20%
Voltage duration	50 μs ±20%	Current duration	20 μs ±20%
Polarity	postive / negative / alternate	Integrated single phase CDN	264 V AC / 16 A
Output impedance	2 Ohm		up to 220 V DC / 10 A
Phase sync	0 – 359° with 1° steps or	Impulse trigger	automatic 2 s – 100 min
	asynchronous mode		manual
Counter preselect	1 – 1'000 / infinite		external trigger input
Counter	100'000	Peak current	BNC output: 1 kA/V
Peak voltage	BNC output: 1000:1	monitor	display: 3 digits
monitor	display: 3 digits		

IEC / EN 61000-4-11 EDITION 2 & 3 AND IEC / EN 61000-4-29 DIPS & INTERRUPTS					
Max. voltage	264 V AC/DC	Interrupt time	0.5 period – 800 periods 100 μs – 1000 minutes		
Max. current	16 A AC/DC continuous 20 A for 5 s 23 A for 3 s 40 A for 3 s > 500 A inrush current	Interval time	1 period – 800 periods 1 ms – 1000 minutes		
Trigger	Automatic, manual, external	Test time	1 s – 1000 minutes, infinite		
Interrupt	0%	Phase sync	0 – 359°, 50 / 60 Hz, external,		
Dip level	0% – 99% (ext. voltage source)		asynchronous mode		
RMS voltage monitor	BNC output: 100:1 display: 3 digits	RMS current monitor	BNC output: 10 A/V display: 3 digits		

#### **Global Presence**

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Current and voltage - our passion

H HIGH VOLTAGEI INSTRUMENTSE EMC

