

# Advanced Test Equipment Rentals www.atecorp.com 800-404-ATEC (2832)

# **PSURGE 4010**

Combination Wave Surge Generator



PSURGE 4010 - the compact IEC combination wave generator

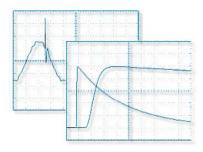
#### ONE SOLUTION FOR

☑ IEC / EN 61000-4-5 Edition 1 & 2

**☑** EN 61000-6-1

**☑** EN 61000-6-2

Surge voltage transients are caused by switching and lightning effects. The PSURGE 4010 allows evaluation of the performance of equipment when subject to high-energy disturbances on power and interconnection lines.



Combination wave detail (front) and impulse on AC power frequency (rear)

#### **FEATURES**

■ Combination wave Voltage: 1,2/50us Current: 8/20us

Impulse voltage: 200V ... 4.2kV
 Impulse current: 100A ... 2,1kA
 Maximum impulse repetition rate 12 per minute

 Positive, negative and user definable alternating polarity

■ Integrated CDN for 16A at 264Vac and 110Vdc

 Impulse voltage, current and EUT current measurement

Test parameter ramp functions

■ Phase angle synchronization

■ 18 test and 18 program memory

■ Remote control using WinFEAT&R©

#### **BENEFITS**

- Totally reproducible test results
- Consistent pulse parameters
- Fully automatic execution of complex test routines and sequences
- Cost effective solution
- Expandable to 3 phase testing with FP-SURGE 32.1
- Expandable to impulse magnetic field testing (IEC 61000-4-9) with MSURGE

#### CONTROL

### QUALITY ENHANCING

## EFFICIENT TESTING

The internal microprocessor, and intelligent user interface making use of main function hard-keys, makes this device very user friendly. The following points further increase user flexibility:

- Programmable and variable parameters make PSURGE 4010 ideal for development and quality engineers.
- Permanent storage of tests and programs
- Alphanumeric input
- Multi-mode LCD display
- Test report generated directly to a printer without using an external computer
- Easy remote control programming with an external computer and WinFEAT&R software

The **PSURGE 4010** generator is fully compliant to the IEC requirements.

A solid state high voltage switch provides very accurate reproducible tests, long life expectancy and accurate phase synchronisation. Product quality is enhanced by:

- An integrated current protected couplingdecoupling network
- decoupling inductors that maintain the impulse waveform
- Integrated high performance peak measurements of impulse voltage and current
- Safety circuit and emergency stop circuit provide high personnel protection

High flexibility and operation of tests is achieved through:

- Fully automatic test sequences
- EUT failure detection and protection by programmable current limits
- EUT failure detection with integrated "EUT Failed" input connector
- Centronix interface for printer
- A serial RS-232 interface enable operation from a computer
- Expansion into an automatic 3-phase system
- Possibility to fulfil IEC 61000-4-9 with an optional coil antenna

#### TECHNICAL SPECIFICATION

Waveshape	1,2/50us and 8/20us according to IEC 61000-4-5	Internal single-phase CDN	
Impulse Voltage	200V 4,2kV	• max. AC power	264V / 16A, 50-60Hz on Schuko plug
Impulse Current	100A 2,1kA	• max. DC power	110V / 16A
Impulse Repetition	Up to 12 per minute	Coupling mode	$18\text{uF}$ and $9\text{uF}+10\Omega$ acc. to IEC 61000-4-5
Impulse Polarity	Positive, Negative, Alternating	Size	19" / 3 units
Power supply	85V 264V, 50/60Hz	Weight	18 kg

#### ORDERING INFORMATION

PSURGE 4010	249600
MSURGE coil antenna	249559
Stand for coil antenna	249003
FP-SURGE 32.1 3-phase CDN	249944
WinFEAT&R software	249970

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