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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!

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Product Lifecycle Management System

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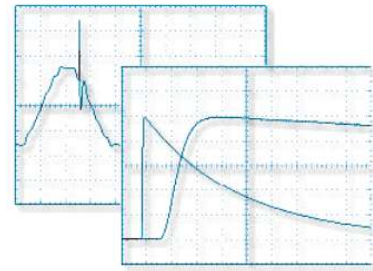
PSURGE 4010

Combination Wave Surge Generator



PSURGE 4010 - the compact IEC combination wave generator

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)

ONE SOLUTION FOR

- IEC / EN 61000-4-5 Edition 1 & 2
- EN 61000-6-1
- EN 61000-6-2

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 locations
- 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

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

QUALITY ENHANCING

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 coupling-decoupling 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

EFFICIENT TESTING

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 18uF and 9uF+10Ω 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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