

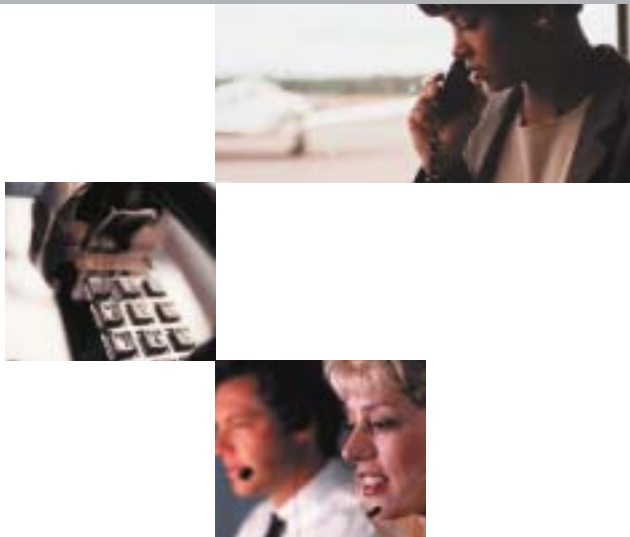
The Model E518 plug-in module enables true three-terminal surge testing using a 10/1000µs waveform to 2000V, as newly-required by Telcordia GR-1089-CORE for Protection Coordination.

Used in the industry-standard KeyTek ECAT test system, the Model E518 is designed to be integrated in an ECAT system to provide a complete solution to all the Telcordia GR 1089 lightning tests, and it can be expanded to meet IEC, UL, FCC, and other international and national specifications.

With unparalleled safety features and automatic report generation, E518 empowers users of ECAT test systems to comply with the new and more stringent Telcordia surge test standards.

## KeyTek ECAT® Model E518

Surge simulator for three-terminal 10/1000µs telecom testing



### The right, easy-to-use tool to meet NEW Telcordia requirements for Protection Coordination

The KeyTek ECAT® Model E518 plug-in test module provides users of the KeyTek ECAT test system with textbook quality user-selectable waveforms required to meet new Telcordia Protection Coordination regulations per Telcordia GR-1089-CORE. Model E518 operates via intuitive and easy-to-use Windows-based KeyTek software. Set-up of the EUT (Equipment Under Test) is rapidly accomplished; minimal training is required for complete test operations.

### Unparalleled safety features

The KeyTek ECAT E518 offers built-in safety features critical for high voltage testing. It includes a complete interlock system that not only disables simulator operation if activated, but also completely removes AC mains power from the EUT, when using any KeyTek AC mains coupler/decoupler.

### Single-port testing saves time

KeyTek ECAT single-port testing for Surge, EFT and PQF mains coupled disturbances allows changing test modes without switching off power to the EUT - avoids lost time due to re-initializing the EUT between tests.

### The KeyTek ECAT® test system enables you to add a complete range of modules

Additional Surge and EFT simulator modules for all major national and international standards are readily available for users of the KeyTek ECAT test system. Options include AC mains coupler/decouplers for single or three-phase lines, to 600V rms and 100A continuous AC line current (the E518 waveforms are not coupled to the AC mains). I/O line coupler/decouplers for all types of lines, including telecom and RS232 are also available.

Meets the NEW Telcordia requirements for Protection Coordination with a 10/1000µs waveform to 2000V

True three-terminal testing

Software-selectable Surge waveforms

Unparalleled safety features for high voltage testing; complete interlock system

Easy set-up and operation via Windows®-based KeyTek software

Automatic report generation

Modular system construction

Minimum system requirements: KeyTek ECAT® 100 Series Control Center



## Single Source Total EMC Test Solutions

Experience the many benefits of working with recognized experts in the field of EMC (Electromagnetic Compatibility) testing. Our commitment to the discipline is wide ranging; we actively participate on global standards committees, and have helped define test methodologies to achieve regulatory standards such as CE Mark requirements, as well as company and market-driven product quality objectives.

Our goal is to support you with lifelong service — from applications support, calibration services and preventative maintenance scheduling to full tactical field support.

Thermo can help you reach the next level of success.

### KeyTek Model E518 Specifications and Tolerances

<b>Waveforms:</b>	10/1000 $\mu$ s, 50-600V -0/+15% peak open-circuit voltage; 100A/side -0/+15% peak short-circuit current
	10/1000 $\mu$ s, 50-1000V -0/+15% peak open-circuit voltage; 100A/side -0/+15% peak short-circuit current
	10/1000 $\mu$ s, 50-2000V -0/+15% peak open-circuit voltage; 100A/side @ 1kV; 200A/side @ 2kV -0/+15% peak short-circuit current
	<i>NOTE: All voltage and current specifications are minimum values, in accordance with Telcordia GR-1089-CORE</i>
	<i>Outputs are all true three-terminal outputs for testing either two or three-terminal devices or inputs. Outputs can be connected in parallel to double the available peak short-circuit current when testing two-terminal devices.</i>
<b>Front time tolerance:</b>	-30%/+0%
<b>Duration tolerance:</b>	-0/+50%
<b>Surge repetition rate:</b>	1 shot/40 seconds at 600V and 1kV; longer charging times at higher voltages
<b>Height:</b>	42cm (17")
<b>Width:</b>	42cm (16 1/2")
<b>Depth:</b>	52cm (20 3/8")
<b>Weight:</b>	32kg (70 lbs.)
<b>Minimum system requirements:</b>	E100 Series Control Center

#### AVAILABLE OPTIONS

<b>E518-S:</b>	Adds an oscilloscope trigger for any Surge network.
<b>E518-VI:</b>	Provides monitoring of the peak surge voltages and currents at the output of the E518 module. All measurements are logged by software for diagnostic evaluation or Go/No-Go testing. NOTE: if an ECAT coupler/decoupler is included, waveform monitoring is available at the output of the coupler/decoupler without the addition of Option E518-VI.

Specialists who understand the challenges you face. Innovative ideas. Leading technologies. Breadth of EMC test equipment. Thermo—your EMC test solutions partner. Contact us today for details.

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