

# SC6540

The Patented Multiplexer that Revolutionized Production Line and Laboratory Electrical Safety Compliance Testing



Our patented SC6540 multiplexer pioneered the largest productivity improvement in the electrical safety compliance industry in years. With up to 16 independent high voltage or high current channels in a convenient 2U design, the SC6540 can be customized in 10 different configurations for multi-point Hipot, Ground Bond, Insulation Resistance, and Leakage Current testing. Configure the SC6540 according to your needs, and interface with your OMNIA® II, HypotULTRA® or LINECHECK® II instrument to improve production line throughput or expand lab testing capability. Operate from the front panel of your AR instrument or utilize a variety of automation interfaces for direct PC control.



## Find the Model that Fits Your Testing Needs



High Voltage



High Current



8 Channel



16 Channel

	High Voltage	High Current	8 Channel	16 Channel
HN	•		•	
HH	•			•
HG	•	•		•
GN		•	•	
GG		•		•

Available in both main and secondary configurations

## AVAILABLE INTERFACES



USB



RS-232



Ethernet  
(Optional)



GPIB  
(Optional)

## PRODUCTIVITY ENHANCING FEATURES



**Interconnection**  
Interconnect with the HypotULTRA®, OMNIA® II or LINECHECK® II to form a complete test system



**WithStand®**  
Automation Software

## FOR USE WITH THE FOLLOWING TESTS



AC Hipot



DC Hipot



Ground Bond



Ground Continuity



Insulation Resistance



Leakage Current

## MODULAR MULTIPLEXER SPECIFICATIONS

<b>Input (Main only)</b>	115 VAC ( $\pm 10\%$ ), 50/60 Hz, single phase 230 VAC ( $\pm 10\%$ ), 50/60 Hz, single phase User selectable
<b>Fuse (Main only)</b>	250 V/2 A/fast-blow
<b>PC Control (Main only)</b>	Standard: USB, RS-232 Optional: Ethernet, GPIB
<b>Multiplexer Control</b>	Main: One Multiplexer bus output controls, up to 4 additional secondaries Secondary: One output and one input
<b>Maximum HV Rating</b>	5 kV AC and DC
<b>Maximum HC Rating</b>	40 A
<b>Number of Possible Channels</b>	8 or 16
<b>HV Output</b>	100' reel HV cable rated for up to 30 kV Terminations with 8 HV connectors
<b>GND Output</b>	20 terminals provided, to accept 10/12 AWG Terminations hook-up wire (user supplied wire)
<b>Temperature</b>	32° – 104° F (0° – 40° C)
<b>Humidity</b>	0 – 80%
<b>Altitude</b>	6,560 ft. (2,000 m)
<b>Mechanical</b>	2U with tilt-up front feet
<b>Dimensions (W x H x D)</b>	17" x 4.07" x 12.96" (432 x 103 x 329 mm)
<b>Weight</b>	Main: 20.05 lbs. max. (9.09 kg) (with 2 high voltage modules) Secondary: 15.45 lbs. max. (7.01 kg) (with 2 high voltage modules)

## CONFIGURATIONS

The modular design can be customize to fit your application. In addition to main or secondary control, the SC6540 can be set up in the following configurations: 8 or 16 high voltage channels, 8 or 16 high current channels, and 8 high voltage channels and/or 8 high current channels. Refer to the images for details.

The different configurations (shown below) are indicated by the following alpha designators

M – Main Multiplexer  
H – 8 High Voltage Channels  
HH – 16 High Voltage Channels  
G – 8 Ground Bond Channels  
GG – 16 Ground Bond Channels  
N – Empty Module  
S – Secondary



## MODEL SC6540 HNM\*

8 Channel High Voltage Multiplexer



## MODEL SC6540 HHM\*

16 Channel High Voltage Multiplexer



## MODEL SC6540 HGM\*

8 Channel High Voltage Multiplexer  
8 Channel High Current Multiplexer



## MODEL SC6540 GNM\*

8 Channel High Current Multiplexer



## MODEL SC6540 GGM\*

16 Channel High Current Multiplexer

\*Also available in secondary configuration