

Instruments for
ELECTRICAL SAFETY COMPLIANCE TESTING



- HIPOT TESTERS
- GROUND BOND TESTERS
- INSULATION RESISTANCE
- LINE LEAKAGE TESTERS
- FUNCTIONAL RUN TESTERS
- MEDICAL TEST SYSTEMS
- HV/HC SCANNING MATRICES
- SOFTWARE SOLUTIONS

SC6540

The patented modular scanning matrix that revolutionized production line and laboratory electrical safety compliance testing.



Safety agency listed.



Choose from the following at no charge:



Our patented SC6540 modular scanning matrix 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 Line Leakage testing. Configure the SC6540 according to your needs, and interface with your OMNIA II, HypotULTRA III, or LINECHECK 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.

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

Available in both master and slave configurations

PRODUCTIVITY-ENHANCING FEATURES



Interconnect with an OMNIA II, HypotULTRA III or LINECHECK II



Use with automation control software



Simultaneous DUT testing with AW2

FOR USE WITH THE FOLLOWING TESTS



Modular Scanning Matrix Specifications

Input (Master only)	115 VAC (+/- 10%), 50/60 Hz, single phase 230 VAC (+/- 10%), 50/60 Hz, single phase User selectable
Fuse (Master only)	250 V/2 A/fast-blow
PC Control (Master only)	Choice of Ethernet, GPIB or USB/RS-232
Scanner Control	Master: one scanner bus output controls up to 4 additional slaves Slave: one output and one input
Maximum HV Rating	5 kV AC and DC
Maximum HC Rating	40 Amps
No. of Possible Channels	8 or 16
HV Output Terminations	100 ft. reel HV cable rated for up to 30 kV with 8 HV connectors
GND Output Terminations	20 terminals provided, to accept 10/12 AWG hook-up wire (user supplied wire)
Temperature	32° - 104° F (0° - 40° C)
Humidity	0 - 80%
Altitude	6560 ft. (2000 m)
Dimensions	2U with tilt-up front feet (WxHxD) 17 x 4.07 x 12.96 in. (432 x 103 x 329 mm)
Weight	Master: 20.05 lbs. max. (9.09 kg) (with 2 high voltage modules) Slave: 15.45 lbs. max. (7.01 kg) (with 2 high voltage modules)

Configurations

The modular design can be customized to fit your application. In addition to master or slave control, the SC6540 can be setup 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 right) are indicated by the following alpha designators	M = Master Scanner
	H = 8 High Voltage Channels
	HH = 16 High Voltage Channels
	G = 8 Ground Bond Channels
	GG = 16 Ground Bond Channels
	N = Empty Module
	S = Slave

*Also available in slave configuration.



Model SC6540 HNM*
8 Channel High Voltage Scanner



Model SC6540 HHM*
16 Channel High Voltage Scanner



Model SC6540 HGM*
8 Channel High Voltage Scanner
8 Channel High Current Scanner



Model SC6540 GNM*
8 Channel High Current Scanner



Model SC6540 GGM*
16 Channel High Current Scanner

Specifications subject to change without notice.

For more information on testing to a specific standard, refer back to the Common Safety Standard Reference Chart.



Safety Is Our Only Focus™

Instruments for
ELECTRICAL SAFETY COMPLIANCE TESTING

**We have local sales offices throughout
the world to serve you more efficiently.**

To find your nearest representative visit us at www.asresearch.com
or call us (USA) toll-free at +1-800-858-8378

Associated Research, Inc.

13860 West Laurel Drive
Lake Forest, IL U.S.A. 60045

Tel: +1-847-367-4077 Fax: +1-847-367-4080
E-mail: info@asresearch.com