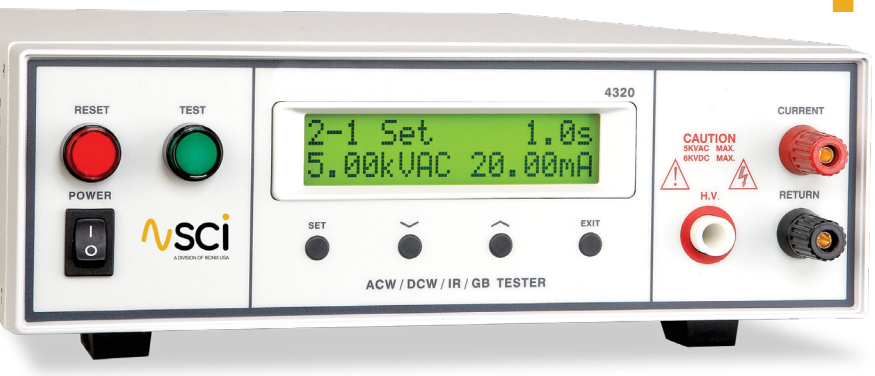
4000 SERIES

4-IN-1 ELECTRICAL SAFETY TESTERS



RoHS 2 COMPLIANT 2011/65/EU

- VERSATILE 4-IN-1 FUNCTIONALITY
- SIMPLE MENU NAVIGATION
- MEETS 200 mA SHORT CIRCUIT REQUIREMENTS*
  *4520 ONLY
- 6 PROGRAMMABLE MEMORIES WITH 6 TEST STEPS EACH
- EASILY AUTOMATE FOR DATA COLLECTION
- REMOTE SAFETY INTERLOCK
- EASILY SAFEGUARD YOUR WORKSTATION WITH PPE ACCESSORIES

The **4000 Series** provides advanced 4-in-1 test capability in a convenient one-box solution. Our most popular multi-function tester, the **4000 Series** performs AC Hipot, DC Hipot, Insulation Resistance and Ground Bond tests while taking up minimal production line space. The **4000 Series** includes the simplest menu navigation in the industry, reducing set-up time and increasing production line throughput for any application. With multiple memories and an optional RS-232 interface, you can quickly perform tests on a variety of DUT's from the front panel or with a PLC remote. Choose from two models.

	AC Hipot	DC Hipot	Insulation Resistance	Ground Bond (30A)
4320	•	•	•	•
4520	**500VA**	•	•	•

RELEVANT APPLICATIONS

APPLIANCE

INDUSTRIAL EQUIPMENT

INFORMATION TECHNOLOGY

CONTRACT MANUFACTURING

SUPPLIED ACCESSORIES

102-050-913	High Voltage Retractable Probe 6 ft. (1.8m)
102-055-913	High Voltage Lead 6 ft. (1.8m)
125-013-001	Input Power Cable USA
99-10164-01	Input Power Cable USA
99-10239-01	60 Amp High Current Lead 6 ft. (1.8m)
99-10238-01	60 Amp High Current Return Lead 6 ft. (1.8m)
99-10040-01	Interlock Connector
99-10106-01	Fuse 4320
99-10656-01	Fuse 4520

All testers come with all the accessories you need to run a test right out of the box.

OPTIONS

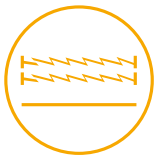
Description	4320	4520
Rear Outputs	•	•
RS-232 Interface	•	•

SERIES FEATURES

Test Setup Memories

Frequency Selection


Ramp


Dwell


Low Current Sense


Safety Agency Listed


PLC Remote


RS-232
(optional)

4000 SERIES SPECIFICATIONS

INPUT

Voltage	4320	115/230 VAC ± 15%, user selection
	4520	115/230V Auto Range, ± 15% variation
Frequency	50/60 Hz ± 5%	
Fuse	4320	6.3 A 250 V slow blow
	4520	15 A slow blow 250 VAC

DIELECTRIC WITHSTAND TEST MODE

Output Rating	4320	5 kV @ 20 mAAC 6 kV @ 5 mADC
	4520	5 kV @ 100 mAAC 6 kV @ 10 mADC
Voltage Setting/ Display	Range: Resolution: Accuracy:	0 - 5.00 kVAC 0 - 6.00 kVDC 0.01 kV ± (2% of setting + 5 V) ± (2% of reading + 10 V)
Current Display	4320	Range: 0 - 20.00 mAAC, 0 - 5.00 mADC Resolution: 0.01 mA Accuracy: ± (2% of reading + 0.02 mA)
	4520	Range: 0 - 99.99 mAAC, 0 - 10.00 mADC Resolution: 0.01 mA Accuracy: ± (2% of reading + 0.06 mA)
HI-Limit LO-Limit	4320 AC	Range: 0 - 20.00 mA Resolution: 0.01 mA Accuracy: ± (2% of setting + 0.02 mA)
	4320 DC	Range: 0 - 5.00 mA Resolution: 0.01 mA Accuracy: ± (2% of setting + 0.02 mA)
	4520 AC	Range: 0 - 99.99 mAAC Resolution: 0.01 mA Accuracy: ± (2% of reading + 0.06 mA)
	4520 DC	Range: 0 - 10.00 mADC Resolution: 0.01 mA Accuracy: ± (2% of reading + 0.06 mA)
Failure Detector	Audible and Visual	
DC Output Ripple	4320	< 5% Ripple RMS at 6 kVDC @ 5 mA, resistive load
	4520	≤ 5% Ripple RMS at 6 KVDC @ 10 mA, resistive load
Discharge Time	≤ 200 ms	
Max. Capacitive Load in DC Mode	1.00 uF < 1 kV 0.08 uF < 4 kV 0.75 uF < 2 kV 0.04 uF < 5 kV 0.50 uF < 3 kV 0.01 uF < 6 kV	
AC Wave Form	Sine Wave distortion <2%, Crest Factor = 1.3 - 1.5	
AC Output Frequency	Range:	50/60 Hz, user selection
Output Regulation	± (1% of setting + 5 V) from no load to full load	
Dwell Timer	Range: Resolution: Accuracy:	0, 0.2 - 999.9 sec, (0 = continuous) 0.1 sec increments ± (0.1% + 0.05 sec)
Ramp Timer	Range: Resolution: Accuracy:	0.1 - 999.9 sec 0.1 sec increments ± (0.1% + 0.05 sec)

INSULATION RESISTANCE TEST MODE

Output Voltage	Range: Resolution: Accuracy:	100 - 1000 VDC 1 V ± (2% of reading + 5 V)		
Voltage Display	Range: Resolution: Accuracy:	0 - 1000 V 1 V ± (2% of reading + 2 V)		
Resistance Display	Range:	1 - 1000 MΩ (4 digit, auto ranging)		
	Resolution:		500 VDC	1000 VDC
		MΩ	MΩ	MΩ
		0.01	1.00 - 40.00	1.00 - 80.00
		0.1	35.0 - 999.9	75.0 - 999.9
Hi-Limit	Range:	0, 1 - 1000 MΩ (0 = off)		
LO-Limit	Range:	1 - 1000 MΩ		
Delay Timer	Range: Resolution: Accuracy:	0, 0.5 - 999.9 sec, (0 = continuous) 0.1 sec ± (0.1% of 0.05 sec)		

GROUND BOND TEST MODE

Output Voltage	Range:	6 VAC fixed
Output Frequency	Range:	50/60 Hz, user selectable
Output Current	Range: Resolution: Accuracy:	3.0 - 30.0 AAC 0.1 A ± (2% of setting + 0.02 A)
Current Display	Range: Resolution: Accuracy:	0 - 30.0 A 0.1 A ± (3% of reading + 0.01 A)
HI-Limit LO-Limit	Range:	0 - 510 mΩ for 3.0 - 10.0 A 0 - 200 mΩ for 10.1 - 25.0 A 0 - 150 mΩ for 25.1 - 30.0 A
	Resolution:	1 mΩ
	Accuracy:	± (2% of setting + 2 mΩ)
Dwell Timer	Range: Resolution: Accuracy:	0, 0.5 - 999.9 sec, (0 = continuous) 0.1 sec ± (0.1% + 0.05 sec)
Milliohm Offset	Max. Offset Capability: Resolution: Accuracy:	0 - 100 mΩ 1 mΩ ± (2% of setting + 2 mΩ)

GENERAL SPECIFICATIONS

Memories	Allows storage of up to 6 different test programs and 6 steps per memory and a single step mode	
Remote I/O	Input: Output:	Test, Reset, Interlock & recall memory 1-6 Pass, Fail, Test-In-Process
Interface	Optional RS-232	
Security	Lockout capability to avoid unauthorized access to test set-up programs	
Calibration	Software & adjustments made through front panel	
Mechanical	Bench or rack mount with tilt up front feet (4520 Only)	
Dimensions (W x H x D)	4320	11" x 3.5" x 17" (280 x 89 x 430 mm)
	4520	16.9" x 5.2" x 15.7" (430 x 133 x 400 mm)
Weight	4320	33 lbs. (15 kg)
	4520	54 lbs. (24.5 kg)

Specifications subject to change without notice.