

290 SERIES

HIPOT TESTERS



5 PROGRAMMABLE
MEMORIES WITH 10
OPTIONAL

EASILY AUTOMATE FOR
DATA COLLECTION

ADVANCED SECURITY
SETTING

TAMPER-PROOF FRONT
PANEL CONTROLS





REDUNDANT HARDWARE
SAFETY INTERLOCK

PORTABLE, RUGGED DESIGN

EASILY SAFEGUARD YOUR
WORKSTATION WITH PPE
ACCESSORIES

SCI product lines continue Ikonix's industry-pioneering experience, and are designed as simple, reliable, and cost-effective solutions that get the job done fast to meet QC, production testing, and service applications.

The **290 Series** embodies our core spirit of "Safety made simple". These testers are designed to be simple enough for on-site operators to get their hands on quickly. Our **290 Series** includes the most intuitive user interface in the industry and won't take up too much space on the production line. With multiple memories and an optional USB interface, you can quickly perform tests on a variety of DUTs from the front panel or with a PC. Choose from our models to satisfy your testing requirements.

	 AC Hipot	 DC Hipot	 Insulation Resistance	 Ground Continuity Check
296	•	•		•
297	•	•	•	•

RELEVANT APPLICATIONS

- APPLIANCE
- AC/DC POWERED PRODUCTS
- CABLES & COMPONENTS
- LIGHTING & LED TESTING
- MODULAR HOMES
- MOTORS & PUMPS

WHAT'S IN THE BOX

- 1102 Return Lead 6 ft. (1.8m)
- 1101 High Voltage Lead 6 ft. (1.8m)
- WC-10-BG Input Power Cable USA
- 1505 Interlock Connector

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

OPTIONS

Description	296	297
Option 01.Rear Outputs	•	•
Option 03.USB Port	•	•
Option 04.Memory	•	•
Option 06.3mA Current Limit	•	•



SERIES FEATURES



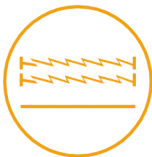
Test Setup Memories



Frequency Selection



Ramp



Dwell



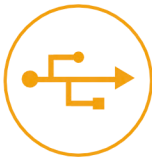
Low Current Sense



Safety Agency Listed



PLC Remote



USB (optional)



On the Go Portability



Intuitive User Interface

290 SERIES SPECIFICATIONS

INPUT (296, 297)

Voltage	100-120 VAC / 200-240 VAC \pm 10% Auto Range
Frequency	50/60 Hz \pm 5%
Fuse	3.15 A / 250 VAC Fast-Blow

DIELECTRIC WITHSTAND TEST MODE

Output Rating	297	AC 0-5.00 kVAC, 12.00 mA DC 0-6.00 kVDC, 5.00 mA
	296	AC 0-5.00 kVAC, 12.00 mA DC 0-6.00 kVDC, 5.00 mA
Voltage Setting	297	0-5.00 kVAC Resolution: 0.01 kV Accuracy: \pm (1.5% of setting + 5V)
	296	0-6.00 kVDC Resolution: 0.01 kV Accuracy: \pm (1.5% of setting + 5V)
Output Frequency	296, 297	DC and 50/60 Hz Selectable
	Accuracy	\pm 0.1%
AC Waveform	Sine Wave, Crest Factor = 1.3 - 1.5	
DC Output Ripple	296	<5% (6 kVDC / 5mA at Resistive Load)
	297	
Dwell Timer	0, 0.2 - 60 sec, (0=continuous), 0.1 sec/step	
Ramp Timer	0.2 - 180 sec, 0.1 sec/step	
Leakage Failure Settings	297	AC Hi-Limit: 0.10 - 12.00 mA Lo-Limit: 0 - 12.00 mA DC Hi-Limit: 0.02 - 5.00 mA Lo-Limit: 0 - 5.00 mA
	296	
	Resolution:	0.01 mA
	Accuracy:	\pm (2% of reading + 0.02 mA)
Discharge Time	< 50 msec for no load, < 100 msec for capacitive load	

INSULATION RESISTANCE TEST MODE (297 only)

Output Voltage	Range:	0.1-1.00 kVDC
	Resolution:	0.01 kV
	Accuracy:	\pm (1.5% of setting + 3 V)
Resistance Display	Range:	1 - 1000 M Ω
	Resolution:	1 M Ω
	Accuracy:	100-499 V \pm (7% of setting + 2 M Ω) 500-1000 V \pm (3% of setting + 2 M Ω)
Hi-Limit	Range:	0.1 - 1000 M Ω (0=off)
	Resolution:	1 M Ω
Lo-Limit	Range:	1 - 1000 M Ω
	Resolution:	1 M Ω
Timer	Ramp:	0.1 or 2.0 sec
	Delay:	0, 0.5 - 999.9 sec, (0=continuous)

GENERAL SPECIFICATIONS

Continuity Feature	Range:	0.0 - 1.50 Ω
	Resolution:	0.01 Ω
	Accuracy:	\pm (2% of setting + 0.02 Ω)
Memories	5 (10 optional)	
Remote I/O	Input:	Test, Reset, Interlock
	Output:	Pass, Fail, Test-in-Process <u>Hardware Interlock - a relay on the high voltage output opens when the Interlock signal is disabled.</u>
3mA AC/DC Current Limit (optional)	296	Range: 0.00 - 3.00 mA Resolution: 0.01 mA Accuracy: \pm (2% of setting + 0.02mA)
	297	
Meter Max (standard)	Displays the maximum voltage value recorded during a breakdown.	
Imax (optional)	Displays the maximum leakage current value read during a test. Option 3 (USB port) must be installed to receive this measurement.	
Security	Option to turn On or Off, when On you can switch between two security levels:	
	1. Run - Operator can only run a test. No ability to change memory locations or edit test parameters.	
	2. Mem - Operator can run a test and change memory locations. No ability to edit test parameters.	
Dimensions (W x H x D)	296, 297	8.5" x 3.5" x 11.9" (215 x 88.1 x 300 mm)
Weight	296, 297	12 lbs (5.46 Kg)

Specifications subject to change without notice.