

Electrical Safety Compliance Simplified.[®]



Hipot • Insulation Resistance • Ground Bond • Multi-Function Electrical Safety

We've been providing Customers with the features they have needed for over 60 years. We aim to simplify the Electrical Safety Industry for our Customers by applying this philosophy to everything we do.



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

PRODUCT SELECTION GUIDE

	AC Hipot	DC Hipot	Insulation Resistance	Ground Continuity Check	Ground Bond	50Hz 60Hz Frequency Selection	Ramp
440 Series							
446	•	•	•		40A	•	•
448	500VA	•	•		40A	•	•
290 Series							
294		•		•			•
295	•			•		•	•
296	•	•		•		•	•
297	•	•	•	•		•	•
298	500VA			•		•	•
260 Series							
264					40A	•	
266					60A	•	

CUSTOMER HAPPINESS PROMISE

We aim to provide an amazing experience and quality testers that last a long time. If you're not satisfied with your tester, return it within 45 days for a full refund. Calibrate annually with us, or one of our authorized partners, and we'll extend your warranty an additional year for the service life of your tester, and at least five years after discontinuation. If it breaks during that time, we promise to fix it for free (unless abuse or excessive damage is present). When your tester reaches the end of its service life, we'll responsibly recycle it and give you a discount on a replacement.

*Annual calibration and inspection must be made in each successive year starting one year after the original purchase date in order to remain eligible for extended warranty coverage beyond the standard warranty period (five years).

5 YEAR WARRANTY

Your new tester is warranted to be free from defects in workmanship and material for a period of (5) years from date of shipment.

**5 year warranty is valid on any model purchased in 2021 or after.

ONGOING SUPPORT

We work to provide the best service and support in the industry. With decades of industry experience we are the pros you can trust to help you be compliant to NRTL standards. We'll work closely with you to help you achieve your goals. We've built a worldwide network of knowledgable partners, so you're covered no matter where you are.

Dwell	Low Current Sense	Safety Agency Listed	PLC Remote	USB	
					440 Series
•	•	•	•	ОРТ	446
•	•	•	•	ОРТ	448
					290 Series
•	•	•	•	ОРТ	294
•	•	•	•	ОРТ	295
•	•	•	•	ОРТ	296
•	•	•	•	ОРТ	297
•	•	•	•	ОРТ	298
					260 Series
•		•	•	ОРТ	264
•		•	•	ОРТ	266







440 SERIES



VERSATILE 4-IN-1 FUNCTIONALITY

INTUITIVE USER INTERFACE

40A GROUND BOND CAPABILITY

20 PROGRAMMABLE MEMORIES

EASILY AUTOMATE FOR DATA COLLECTION

REMOTE SAFETY INTERLOCK

EASILY SAFEGUARD YOUR WORKSTATION WITH PPE ACCESSORIES The 440 Series provides advanced 4-in-1 test capability in a convenient one-box solution. This new series performs AC Hipot (448 - 500 VA), DC Hipot, Insulation Resistance and 40A AC Ground Bond tests while taking up minimal production line space. The 440 Series is simple and easy-to-use; reducing setup time and increasing production line throughput for your application. With multiple memories and an optional USB port for remote BUS communication so you can quickly perform tests on a variety of DUTs from the front panel or with a PC.

	AC Hipot	DC Hipot	Insulation Resistance	40A L Ground Bond
446	•	•	•	•
448	500VA	•	•	•

50Hz 60Hz

Frequency

Selection

RELEVANT APPLICATIONS

APPLIANCE INDUSTRIAL EQUIPMENT INFORMATION TECHNOLOGY CONTRACT MANUFACTURING LABORATORY EQUIPMENT

WHAT'S IN THE BOX

33189	Power Cord (10A) 6ft - *446 Model
38071	Power Cord (15A) 6ft - *448 Model
99-10783-01	Fuse 10A Slow Blow 20mm - *446 Model
99-10168-01	Fuse 15A Fast Blow 30mm - *448 Model
38075	Interlock Connector Male
40428	Ground Bond Test Lead
40429	Ground Bond Return Lead
04040A-08	High Voltage Test Lead 6ft
99-10797-01	USB A-B 1.8M Cable

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

Ramp

T#1 || **T**#2

Test Setup

Memories

SERIES FEATURES



Sense



Dwell



OPTIONS

Description	446	448
Rear Outputs	•	•
USB Port	•	•













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

The 290 Series is our most popular line of Hipot testers. These testers are designed to simplify every aspect of safety testing for operators of all comfort levels. 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 5 different models to satisfy your testing requirements.

	AC Hipot	DC Hipot	Insulation Resistance	Ground Continuity Check
294		•		•
295	•			•
296	•	•		•
297	•	•	•	•
298	500VA			•

RELEVANT APPLICATIONS

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

WHAT'S IN THE BOX

- 02100A-13 Return Lead 6 ft. (1.8m)
- 04040A-08 High Voltage Lead 6 ft. (1.8m)
- 33189 Input Power Cable USA
- 38075 Interlock Connector

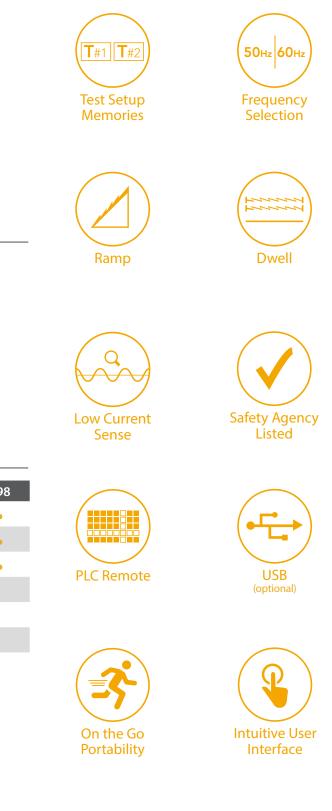
All testers come with the accessories you need to run a test right out of the box.

OPTIONS

Description	294	295	296	297	298
Rear Outputs	•	•	•	•	•
USB Port	•	•	•	•	•
10 Memory	•	•	•	•	•
3mA Current Limit	•	•	•	•	
Pulse Mode		•			
Push to Test Mode		•			



SERIES FEATURES





260 SERIES GROUND BOND TESTERS

CEUK

5 PROGRAMMABLE MEMORIES

EASILY AUTOMATE FOR DATA COLLECTION

ADVANCED SECURITY SETTINGS

MILLIOHM OFFSET FUNCTION FOR ACCURATE GROUND BOND TESTING

REDUNDANT HARDWARE SAFETY INTERLOCK

PORTABLE, RUGGED DESIGN

EASILY SAFEGUARD YOUR WORKSTATION WITH PPE ACCESSORIES Our **260 Series** makes Ground Bond testing simple. Choose between two easy-to-use Ground Bond testers that provide the output current to satisfy NRTL specifications. With an intuitive interface that allows you to set-up a test in seconds and practical security settings, our **260 Series** can easily be deployed in both laboratory and production line environments.



RELEVANT APPLICATIONS

APPLIANCE INDUSTRIAL EQUIPMENT MEDICAL LABORATORY EQUIPMENT WATER PUMPS

264 WHAT'S IN THE BOX

- 40431 40 Amp High Current Return Lead 6ft. (1.8m)
- 40432 40 Amp High Current Lead 6ft. (1.8m)
- 33189 Input Power Cable USA
- 99-10783-01 Fuse 10 Amp (264 Model)
- 38075 Interlock Connector

266 WHAT'S IN THE BOX

40406	60 Amp High Current Lead 6 ft. (1.8m)
40405	60 Amp High Current Return Lead 6 ft. (1.8m)
38071	Input Power Cable USA
40430	Fuse 12 Amp (266 Model)
38075	Interlock Connector

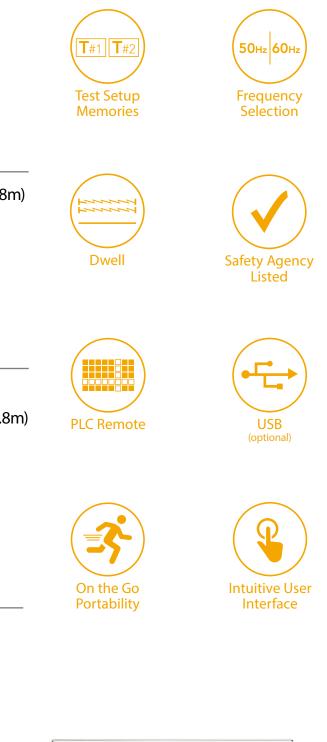
All testers come with the accessories you need to run a test right out of the box.

OPTIONS

Description	264	266
Rear Outputs	•	•
USB Port	•	•
Display Voltage Drop	•	•



SERIES FEATURES





INPUT (446 and 448)

Voltage	100 - 120Va	100 - 120Vac / 200 - 240Vac±10% Auto Range			
Frequency	50/60Hz ±	$50/60Hz \pm 5\%$			
Fuse 446		10A / 250Vac Slow-Blow			
	448	15A / 250Vac Fast-Blow			

DIELECTRIC WITHSTAND TEST MODE

Output Rating	446	5 KV @ 20 mA AC 6 KV @ 5 mA DC	ĸa	
	448	5 KV @ 99.99 mA AC 6 KV @ 10 mA DC		
Voltage Setting/Display	Range	0 – 5.00 KV AC 0 – 6.00 KV DC	II Ot	
	Resolution	0.01		
	Accuracy	± (2% of setting + 5V)		
Current Display	446	Range: 0 - 20.00 mA AC, 0 - 5.00 mA DC Resolution: 0.01 mA Accuracy: ± (2% of reading + 0.02 mA)	Hi re	
	448	Range: 0 - 99.99 mA AC, 0 - 10.00 mA DC Resolution: 0.01 mA Accuracy: ± (2% of reading + 0.06 mA)	Lo re	
Hi-Limit Lo-Limit	446 AC	Range: Lo-Limit 0 - 20.00 mA, Hi-Limit 0.10 – 20.00 mA Resolution: 0.01 mA Accuracy: ± (2% of setting + 2 counts)	Ra	
	446 DC	Range: Lo-Limit 0 - 5.00 mA, Hi-Limit 0.02 – 5.00 mA Resolution: 0.01 mA Accuracy: ± (2% of setting + 2 counts)	De	
	448 AC	Range: Lo-limit 0 - 99.99 mA, Hi-Limit 0.10 – 99.99 mA Resolution: 0.01 mA Accuracy: ± (2% of reading + 6 counts)	Spe	
	448 DC	Range: Lo-Limit 0 - 10.00 mA, Hi-Limit 0.02 – 10.00mA Resolution: 0.01 mA Accuracy: ± (2% of reading + 6 counts)		
Failure Detector	Audible and	Visual		
DC Output Ripple	446	${<}5\%$ (6KV / 5mA at Resistive Load)		
	448	<5 % (6KV / 10mA at Resistive Load)		
Discharge Time	446 448	< 50 ms for no load, < 200 ms for capacitor load < 50 ms for no load, < 100 ms for capacitor load		
Max. Capacitive Load in DC Mode	1μF < 1KV 0.75μF < 2KV 0.5μF < 3KV	0.08μF < 4KV 0.04μF < 5KV 0.015uF < 6KV		
AC Wave Form	Sine Wave, Crest Factor = 1.3 - 1.5 and output voltage > 300V			

DIELECTRIC WITHSTAND TEST MODE (Cont.)

Output Regulation	\pm (1% of output + 5V), From no load to full load			
Dwell Timer	Range: Resolution: Accuracy:	0, 0.2 - 60.0 (0=continuous) 0.1 ± (0.1% of setting + 0.05 sec)		
Ramp Timer	Range: Resolution: Accuracy:	0.2-180.0 0.1 ± (0.1% of setting + 0.05 sec)		

INSULATION RESISTANCE TEST MODE

Output Voltage, VDC	Range: Resolution: Accuracy:	100 - 1000 1 ± (2% of setting + 5V)
Hi-Limit resistance, MΩ	Range: Resolution: Accuracy:	0, 1 - 1000 (0 = OFF) 1 100-499V ± (7% of setting + 2 counts)
Lo-Limit resistance, MΩ	Range: Resolution: Accuracy:	1 - 1000 1 500-1000V ± (3% of setting + 2 counts)
Ramp Time , second	Range: Resolution: Accuracy:	0.1 or 2.0 0.1 ± (0.1% of setting + 0.05 sec)
Delay Time, second	Range: Resolution: Accuracy:	0, 0.5 - 999.9 (0=continuous) 0.1 ± (0.1% of setting + 0.05 sec)

Specifications subject to change without notice.

50Hz/60Hz \pm 0.1%, User Selection

AC Output

Frequency

GROUND BOND

and on b bonb		
Output AC Current, A	Range: Resolution: Accuracy:	1.0 - 40.0 0.1 ± (2 % of setting + 2 counts)
Output AC Voltage, V	8V(Fixed)	
Output Frequency, Hz	50Hz/60Hz ± 0.1	%, User Selectable
Maximum Loading	1.0-10.0A/0-600 30.1-40.0A/0-15	0mΩ,10.1–30.0A/0–200mΩ, 50mΩ
Offset, mΩ	Range: Resolution: Accuracy:	0-100 1 ± (2 % of setting + 2 counts)
HI and LO-Limit Resistance, $m\Omega$	Range: Resolution: Accuracy:	0 – 150 (30.1-40.0A) 1 ± (2 % of setting + 2 counts)
	Range: Resolution: Accuracy:	0 – 200 (10.1-30.0A) 1 ± (2 % of setting + 2 counts)
	Range: Resolution: Accuracy:	0 – 600 (1.0-10.0A) 1 ± (2 % of setting + 2 counts)
Fix Ramp Timer, second	Range: Resolution: Accuracy	0.4 0.1 ± 0.05 sec
	251	250mOhm à 0.1sec ramp up 1-300mOhm à 0.2sec ramp up 1-450mOhm à 0.3sec ramp up >450mOhm = 0.4sec
Dwell Timer, second	Range: Resolution: Accuracy	0, 0.1 - 240.0 (0 = continuous) 0.1 ± 0.05 sec

GENERAL SPECIF	CATIONS						
Memories	Allows storage of up to 20 different test programs and a single step mode						
Remote I/O	Input: Output:	Test, Reset, Interlock & Recall Memory 1 – 6 Pass, Fail, Test-in-Process					
Interface	USB (Optional)						
Security	Lockout capability to avoid unauthorized access to test set-up programs						
Calibration	Software and adj panel	ustments made through the front					
Dimension	446	280mm(W) ×89mm(H) × 400 mm(D)					
	448	430mm(W) ×132mm(H) × 400 mm(D)					
Weight	446	18lbs (8kg)					
	448	53lbs (24kg)					
Specifications subject to ch	ange without notice	2.					

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INPUT (294, 295, 296	, 297, 298)		INSULATION RESIS	TANCE TEST	MODE (297 only)	
Voltage Frequency	100-120 VAC / 2 50/60 Hz ± 5%	200-240 VAC \pm 10% Auto Range	Output Voltage	Range: Resolution:	0.1-1.00 kVDC 0.01 kV	
riequency			Resistance Display	Accuracy:	± (1.5% of setting + 3 V) 1 - 1000 MΩ	
Fuse DIELECTRIC WITH	3.15 A / 250 VA		Resistance Display	Range: Resolution: Accuracy:	1 MΩ 100-499 V ± (7% of setting + 2 MΩ) 500-1000 V ± (3% of setting + 2 MΩ)	
Output Rating	298	AC 0-5.00 kVAC, 99.99 mA	Hi-Limit	Range:	0.1 - 1000 MΩ (0=off)	
	297	AC 0-5.00 kVAC, 12.00 mA DC 0-6.00 kVDC, 5.00 mA	Lo-Limit	Resolution:	1 MΩ 1 - 1000 MΩ	
	296	AC 0-5.00 kVAC, 12.00 mA DC 0-6.00 kVDC, 5.00 mA		Range: Resolution:	1 ΜΩ	
	295	AC 0-5.00 kVAC, 12.00 mA	Timer	Ramp: Delay:	0.1 or 2.0 sec 0, 0.5 - 999.9 sec, (0=continuous)	
	294	DC 0-6.00 kVDC, 5.00 mA	GENERAL SPECIFIC	CATIONS		
Voltage Setting	298 297 296 295	0-5.00 kVAC Resolution: 0.01 kV Accuracy: \pm (1.5% of setting + 5V)	Continuity Feature	Range: Resolution: Accuracy:	0.0 - 1.50 Ω 0.01 Ω ± (2% of setting + 0.02 Ω)	
	255		Memories	5 (10 optional)		
	297 296 294	0-6.00 kVDC Resolution: 0.01 kV Accuracy: ± (1.5% of setting + 5V)	Remote I/O	Input: Output:	Test, Reset, Interlock Pass, Fail, Test-in-Process	
Output Frequency	294	DC only			Hardware Interlock - a relay on the high voltage output opens when the Interlock signal is disabled.	
	295, 298	50/60 Hz Selectable	3mA AC/DC	294		
	296, 297	DC and 50/60 Hz Selectable	Current Limit	295	Range: 0.00 - 3.00 mA Resolution: 0.01 mA	
	Accuracy	± 0.1%	(optional)	296 297	Accuracy: ± (2% of setting + 0.02mA)	
AC Waveform	Sine Wave, Cre	st Factor = 1.3 - 1.5	Meter Max	Displays the ma	aximum voltage value recorded during a	
DC Output Ripple	294 296	<5% (6 kVDC / 5mA at Resistive Load)	(standard) Imax	breakdown. Displays the ma	aximum leakage current value read	
Dwell Timer	297 0, 0.2 - 60 sec, ((0=continuous), 0.1 sec/step	(optional)		ption 3 (USB port) must be installed to	
Ramp Timer	0.2 - 180 sec, 0.	.1 sec/step	Security	Option to turn of between two so	On or Off, when On you can switch	
Leakage Failure Settings	298	AC Hi-Limit: 0.10 - 99.99 mA Lo-Limit: 0 - 99.99 mA			or can only run a test. No ability to change	
	Resolution: Accuracy:	0.01 mA ± (2% of reading + 0.06 mA)		-	ons or edit test parameters.	
	297 296	AC Hi-Limit: 0.10 - 12.00 mA Lo-Limit: 0 - 12.00 mA DC Hi-Limit: 0.02 - 5.00 mA		-	tor can run a test and change ons. No ability to edit test	
		Lo-Limit: 0 - 5.00 mA	Safety Mark	CE/cTUVus		
	295	AC Hi-Limit: 0.10 - 12.00 mA Lo-Limit: 0 - 12.00 mA	Dimensions (W x H x D)	294, 295 296, 297	8.5" x 3.5" x 11.9" (215 x 88.1 x 300 mm)	
	294	DC Hi-Limit: 0.02 - 5.0 mA Lo-Limit: 0 - 5.00 mA		298	16.93" x 5.20" x 11.84" (430 x 132 x 300 mm)	
	Resolution: Accuracy:	0.01 mA ± (2% of reading + 0.02 mA)	Weight	294, 295 296, 297	12 lbs (5.46 Kg)	
Discharge Time	< 50 msec for n	no load, < 100 msec for capacitive load		298	46 lbs (20.86 Kg)	

Specifications subject to change without notice.



INPUT		264 100 - 120 VAC / 200 - 240 VAC + 10%		GENERAL SPECIF	CATIONS				
Voltage	264		100 - 120 VAC / 200 - 240 VAC ± 10% Auto Range	Memories	5				
	266		100 - 240 VAC ± 10% Full Range	Remote I/O	Input:	Test, Reset, Interlock			
F	50/60		_		Output:	Pass, Fail, Test-in-Process			
Frequency		Hz ± 5%			Hardware Interlock - a relay on the high voltage output oper when the Interlock signal is disabled.				
Fuse	264 266		10A / 250 VAC Slow-Blow 12A / 250 VAC Slow-Blow	Voltage Drop Display (optional)	Display the voltage drop across the circuit instead of the resistance measurement.				
GROUND BOND T	EST MO	DE		Voltage Limit Settings	264	0.00 - 6.00 VAC			
Output Rating	264	3.0 - 40.	0 AAC		266	0.00 - 9.00 VAC			
	266	3.0 - 60.	0 AAC		Resolution: 0.01 V Accuracy: ± (2% of setting + 0.02 V)				
	Resolu	ition: 0.1 A		Offset Limit Settings	264	0.00 - 4.00 VAC			
	Accura	acy: ± (2%	of setting + 0.1A)	, , , , , , , , , , , , , , , , , , ,					
	264	Voltage	8 VAC (fixed)		266	0.00 - 6.00 VAC			
	266	Voltage	12 VAC (fixed)			on: 0.01 V y: ± (2% of setting + 0.02 V)			
Output Frequency		50/60 Hz user selectable Accuracy: ± 0.1%		Security	Option to turn On or Off, when On you can switch between two security levels:				
Resistance Limit Settings	264	0 - 200 r	nΩ for 30.1 - 40.0 A nΩ for 10.1 - 30.0 A nΩ for 3.0 - 10.0 A			1. Run - Operator can only run a test. No ability to change memory locations or edit test parameters.			
	266	0 - 200 r	nΩ for 30.1 - 60.0 A nΩ for 15.1 - 30.0 A nΩ for 3.0 - 15.0 A		2. Mem - Operator can run a test and change memory locations. No ability to edit test				
		ition: 1 mû			parame	-			
Offset Limit Settings	0 - 100		of setting + 2 m Ω)	Safety Mark	CE/cTUV	us			
	Resolu	ition: 1 mΩ	Ω of setting + 2 m Ω)	Dimensions (W x H x D)	264	8.5" x 3.5" x 11.81" (215 x 88 x 300 mm)			
Dwell Timer	0, 0.5 -	240.0 sec,	, (0=continuous), 0.1 sec/step		266	16.93" x 5.20" x 11.81" (430 x 132 x 300 mm			
Ramp Timer	0.1 sec	fixed		Weight	264	9.25 lbs. (4.3 Kg)			
Measurement	264	0.0 - 40.	0 AAC		266	20.25 lbs. (9 Kg)			
Current	266	0.0 - 60.	0 AAC	Specifications subject to ch	nange without	notice.			
		ition: 0.1 A acy: ± (3%	of reading + 0.1 A)						
Ohmmeter	264	0 - 600 r	mΩ						
		Accurac	ion: 1 m Ω :y: ± (3% of reading + 3 m Ω) for 3 - 5.9 A, f reading + 2 counts) for 6 - 40A						
	266	0 - 600 r	nΩ						

Resolution: 1 m Ω Accuracy: ± (3% of reading + 3 m Ω) for 3 - 5.9 A ± (2% of reading + 2 m Ω) for 6 - 60 A

ICONOGRAPHY



The AC Hipot test is used to stress the insulation of a DUT with AC high voltage.

500 VA

Output up to 100 mA of current during an AC Hipot test.



Connect your tester to a PC for automated applications with optional USB control.



The DC Hipot test is used to stress the insulation of a DUT with DC high voltage.



The Ground Bond test is used to verify the integrity of a DUTs earth ground conductor.



50нz 60нz

Frequency

Selection

Quickly setup, edit and recall test settings for different types of DUTs with multiple user-defined memory locations.

Get your products

or 60 Hz.

ready for the global

market by testing at 50



Maximize operator safety by connecting an enclosure, warning lights, or safety probes to your tester.



Denotes a tester designed for optimal portability. Perfect for use in the field.

Check

The Ground Continuity test is used to verify the presence of the DUTs earth Ground Continuitground conductor.



Prevents false failures by slowly ramping up the output voltage over time – perfect for sensitive or highly capacitive DUTs.

Low Current Sense

Prevents false Hipot passes with confidence by ensuring your test leads are connected correctly.

Insulation Resistance

The Insulation Resistance test is used to determine the total resistance of a DUTs insulation.



Eliminates the need to make adjustments during testing by consistently applying the correct voltage for the correct amount of time.

Safety Agency Listed

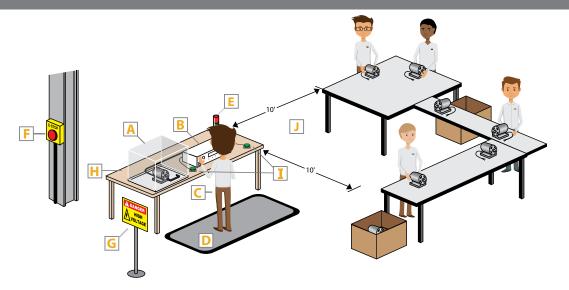
This tester is NRTL listed and was subjected to the same rigorous tests it must perform.

SAFETY STANDARD REFERENCE CHART

Standard / Harmonized	Harmonized Type		Dielectric Withstand				Ground Bond/Continuity				Insulation Resistance			Suggested Model #
Standard	Туре	Test Voltage	Max I.	Test Time	Test Current	V Limit	Max. R	Test Time	Test Voltage	Max I.	Test Time	V Limit	Min R	SCI Tester
H.U.D. Specification	Performance	900-1079 VAC or 1273-1526 VDC	No Breakdown	60 s		Co	ntinuity		N/	A		N/A		294, 295, 296, 297
#24 CFR 3280.810	Production	1080-1250 VAC or 1527-1768 VDC	No Breakdown	1 s		Co	ntinuity		N/	A	N/A		294, 295, 296, 297	
R.V.I.A. (NEC)	Performance	900 VAC or 1280 VDC	No Breakdown	60 s		Co	N/	A	N/A		294, 295, 296, 297			
R.V.I.A. (NEC)	Production 1080 VAC or 1530 VDC		No Breakdown	1 s	Continuity				N/	A	N/A		294, 295, 296, 297	
IEC 60335-1 Household Electrical Appliances	Performance	500 – 2400 VAC x rated V + 2400 VAC	No Breakdown	60 s	≥ 10 A	≤ 12 V	0.1 – 0.2 Ω	≤ 120 s	1.06 x rated V	0.25 – 5.0 uA		N/A		298*
UL 60335-1 Household Electrical Appliances	Performance	500 V – 2400 VAC x rated V + 2400 VAC	No Breakdown	60 s	40 A	≤ 6.5 V	≤ 0.5 Ω	120 s	1.06 x rated V	0.25 – 5.0 uA		N/A		298*
IEC 60598-1	Performance	500 – 4 x rated V + 2000 VAC	No Breakdown	60 s	≥ 10 A	≤ 12 V	≤ 0.5 Ω	60 s	Rated V	0.5 – 10 mA	60 s	500 VDC	1-4 ΜΩ	298*
Luminaires	Production		Not Specified - Responsibility of Manufacturer											294, 295, 296, 297
UL 1598 Luminaires	Production	1200 VAC	No Breakdown	1 s	Contir	nuity	≤ 0.1 Ω	Continuity	N/	A	N/A		295	
IEC/UL 61010-1 & CSA 22.2 No. 61010-	Performance			5 - 60 s	25 or 30 A	≤ 10 V or ≤ 12 V	≤ 0.1 Ω or <4 V 0.133 Ω	60 or 120 s	< 300 V	0.5 mA		N/A		298*
1 Laboratory Control Test & Measurement Equipment	Production	840 - 11940 VAC or 1200 - 7500 VDC	No Breakdown	5 s max ramp up 2 s dwell		Co	ntinuity		N/	A		N/A		294, 295, 296, 297
	Production			Not S	pecified - F	Responsi	oility of Ma	anufacturer						294, 295, 296, 297
UL 45A Portable Electrical Appliances	Production	1000 - 3000 VAC	No Breakdown	1 s		Co	ntinuity		N/	A		N/A		294, 295
UL 60950-1 CSA 22.2 No. 60950-1 & IEC 62368-1 Audi/Video, Information & Communication Technology Equipment	Production	1000 – 3000 VAC or 1414 – 4242 VDC	No Breakdown	1 – 6 s		Со	ntinuity		N/	A		N/A		294, 295, 296

* This standard requires the use of a 500VA Hipot Tester

SAFE WORKSTATION



One of the best ways to prevent injury is to ensure that your test station is set up safely and securely. Test stations can be setup with or without direct protection depending on your requirements. Direct protection means that the operator cannot physically come into contact with an energized DUT while a test is running. This safe workstation diagram uses a Hipot tester as an example to illustrate how our protective equipment can be used to keep operators safe.



Insulation Mat

This isolates you from ground which provides an additional means of protection when operating high voltage equipment.

Mark the testing area with a clearly posted sign that reads: DANGER - HIGH VOLTAGE TEST AREA. AUTHORIZED PERSONNEL

ONLY.

Stipulate that any unqualified workers shall not come within 10' of an EXPOSED energized circuit.

Agency

PPE ACCESSORIES

IMPROVE WORKSTATION SAFETY WITH PPE

Our Personal Protective Equipment improves workstation safety, warns unqualified operators of a dangerous testing area, and safeguards operators from electric shock. OSHA 1910 Subpart S rrequires, by law, that employers provide their employees with working conditions free of known hazards. We'll help you provide your employees with all necessary PPE.





CLASS 3 INSULATION MAT

This class 3 electrical insulation mat is an ideal means for adding a level of operator safety. The mat isolates the operator from ground while testing, which greatly mitigates the shock hazard.

Thickness: 3/8" (9.53 mm)

Dimensions: 3' x 3' (91.44 x 91.44 cm)

HIGH VOLTAGE WARNING SIGN

39538

This "DANGER: HIGH VOLTAGE TEST AREA" sign is ideal for warning unauthorized operators to stay away from the test area. This sign should be clearly visible and mounted outside of the electrical testing area.

SIGNAL TOWER LIGHT 24V

40417

Our Signal tower light gives operators a visual indication of the status of the testing area. A green light indicates the Hipot tester is not outputting high voltage and the test area is safe. A red light indicates that the Hipot tester is active and to stay clear of the test area.

Compatible Models: 290 Series, 260 Series, and 440 Series



DUT ENCLOSURE 39067

Our DUT Enclosures are designed to protect the operator from electric shock during testing. Interface an enclosure with our Remote Safety Interlock feature to automatically disable the instrument's output when the enclosure door is opened. **Outside dimensions (W x D x H):** 24" x 19" x 11.5" (610 x 483 x 293 mm)

Inside dimensions (W x D x H): 20" x 16" x 10" (508 x 407 x 254 mm) 3/4" Walls, 3/4" Flame Retardant Foam 1/4" Plexiglass cover

EMERGENCY STOP SWITCH

ESTOP

The E-Stop trigger will immediately stop the flow of electric current to your SCI tester when pressed, preventing operator injury or damage to a device under test.

Compatible Models: 290 Series, 260 Series, and 440 Series



REMOTE TRIGGER FOOT SWITCH 35822

Allows for remote operation of electrical safety tests while a safe distance is maintained between the operator and test instrument.

Compatible Models: All testers



DUAL PALM REMOTE SWITCHES DPR-01

Using two-hand operation switches ensures operator safety because it forces you to place a hand on each switch and hold throughout the test. This prevents you from accidentally touching a DUT while the test in running. The palm switches should be placed at least 21.6" (550mm) apart to prevent one-hand activation of both switches.

Compatible Models: 290 Series and 440 Series

PPE ACCESSORIES



REMOTE TEST BOX (RTB)

The RTB is a Remote Test and Reset Control Box. It comes in two different configurations: RTB-01 and RTB-02. Both models utilize the connection of Remote Input/Output on the back of all compatible SCI testers and can be used to initiate and reset a test. The RTB-02 has an additional feature (LEDs) which allow the operator to monitor the PASS, FAIL and PROCESSING signals.

RTB-01 Compatible Models: 260 Series, 290 Series, 440 Series RTB-02 Compatible Models: 290 Series, 260 Series, 440 Series



HIGH VOLTAGE RETRACTABLE PROBE 6FT (1.8M)

38081

The simple-to-use high voltage retractable probe gives operators the ability to press to activate the retractable probe tip.

Compatible Models: All Hipots



RETURN RETRACTABLE PROBE 6FT (1.8M)

38082

Our return retractable probe allows for safe contact to ground points of a DUT. The trigger style is ergonomically comfortable for daily use. **Compatible Models:** 290 Series, 440 Series

DUAL ACTION TRIGGER TEST PROBE 10 FT. (3m)

38814

This high voltage test gun has a dual action test trigger that controls the retractable probe tip and activates the high voltage output of the tester. The unique ergonomic shape makes this probe easy and comfortable to use.

Compatible Models: 290 Series, 440 Series



40 AMP HIGH CURRENT PROBE W/ LUG 10 FT. (3m) 38539

This fixed tip probe allows for easy contact with the grounding points of the DUT. The probe has two separate test buttons making it comfortable to use in various positions. The test switch can be used to activate high current after making good contact with the test point.

Compatible Models: 264

ACCESSORIES

TESTER VERIFICATION

Nationally Recognized Testing Laboratories (NRTLs) require minimums for in-service checks of electrical safety testers. In-service checks are designed to verify the measurement accuracy of the test equipment. These verification checks must accurately detect a pass and failure condition to ensure electrical safety testers are functioning properly. NRTLs require verification testing to be performed daily.



TEST VERIFICATION BOX

Our test verification box solutions are a go / no-go daily test verification designed to ensure that the failure detectors of an SCI electrical safety tester are functioning properly. These boxes were designed to verify AC and DC Hipot test functionality (the TVB-2 also has Ground Bond test functionality), making it the ideal solution for manufacturers who are required to conduct daily verifications on their test equipment.

TVB-1 Compatible Models: All Testers TVB-2 Compatible Models: All Testers





120 kΩ Resistor

P/N: 35445 Use the 120 kΩ resistor for Hipot failure verification. It can also be used to establish a Hipot trip current/failure point. **Compatible Models:** All Testers

FAIL VERIFICATION

ADAPTER BOX

An adapter box allows for safe and easy testing of line cord-terminated products. Simply connect the adapter box to the tester and then plug the DUT into the adapter box. Adapter boxes are available for most test instruments in multiple country configurations.

1	Part Number	Name	Compatible With
	36544	Universal US - 10FT	290 Series
	40400	Universal US - HV, HC 40Amp - 10FT	440 Series





Record, track and store your data with our software as a service.



- Remote Instrument Connection
- Compatible with 260 Series, 290 Series, 440 Series.



- Intuitive User Interface
- Immediate Cloud Storage

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The platform's interface introduces an intuitive user experience making it easy to setup, run tests and view your reports.

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	Voltage: 12400 Hi-Limit Total: Lo-Limit Total:	10mA	Dwell Time: 1s Romp Down: 0 Art: Sense: 5		Le-Linit Rea Offset: 0 Frequency: (60Hz	Continuity C Range: Auto Prompt Hest		-23	View Details
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Cloud storage ensures that your tests and data will never be lost or altered – all information is stored immediately to the cloud for access at any time.

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Testers For Electrical Safety Compliance

