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 Ground Bond
446	•	•	•	•
448	500VA	•	•	•

RELEVANT APPLICATIONS

APPLIANCE
INDUSTRIAL EQUIPMENT
INFORMATION TECHNOLOGY
CONTRACT MANUFACTURING
LABORATORY EQUIPMENT

WHAT'S IN THE BOX

125-013-001	Power Cord (10A) 6ft - *446 Model
99-10164-01	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
99-10040-01	Interlock Connector Male
99-10866-01	Ground Bond Test Lead
99-10865-01	Ground Bond Return Lead
102-055-913	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.

OPTIONS

Description	446	448
Rear Outputs	•	•
USB Port	•	•

SCI 448 Model

SERIES FEATURES

- Test Setup Memories
- Frequency Selection (50Hz / 60Hz)
- Ramp
- Dwell
- Low Current Sense
- Safety Agency Listed
- PLC Remote
- USB (optional)
- On the Go Portability
- Intuitive User Interface

440 SERIES SPECIFICATIONS

MODEL	SCI 446			SCI 448		
INPUT						
Voltage	100 - 120Vac / 200 - 240Vac±10% Auto Range					
Frequency	50/60Hz ± 5%					
Fuse	10A / 250Vac Slow-Blow			15A / 250Vac Fast-Blow		
	Range	Resolution	Accuracy	Range	Resolution	Accuracy
AC WITHSTAND VOLTAGE						
Output Voltage, KVAC	0-5.00	0.01	± (2% of setting + 5V)	0-5.00	0.01	± (2% of setting + 5V)
Output Frequency	50Hz/60Hz ± 0.1% , User Selection,			50Hz/60Hz ± 0.1% , User Selection,		
Output Waveform	Sine Wave, Crest Factor = 1.3 - 1.5 and output voltage > 300V			Sine Wave, Crest Factor = 1.3 - 1.5 and output voltage > 300V		
Output Regulation, Vrms	± (1% of output + 5V), From no load to full load and Low Line to High Line (combined regulation)			± (1% of output + 5V), From no load to full load and Low Line to High Line (combined regulation)		
Hi-Limit AC current, mA	0.10-20.00	0.01	± (2% of setting + 2 counts)	0.10-99.99	0.01	± (2% of setting + 6 counts)
Lo-Limit AC current, mA	0.00-20.00	0.01	± (2% of setting + 2 counts)	0.00-99.99	0.01	± (2% of setting + 6 counts)
Ramp Time, second	0.2-180.0	0.1	± (0.1% of setting + 0.05 sec)	0.2-180.0	0.1	± (0.1% of setting + 0.05 sec)
Dwell Time, second	0, 0.2 - 60.0 (0=continuous)	0.1	± (0.1% of setting + 0.05 sec)	0, 0.2 - 60.0 (0=continuous)	0.1	± (0.1% of setting + 0.05 sec)
DC WITHSTAND VOLTAGE						
Output Voltage, KVDC	0 -6.00	0.01	± (2% of setting + 5V)	0 -6.00	0.01	± (2% of setting + 5V)
DC Output Ripple, Vrms	<5 % (6KV / 5mA at Resistive Load)			<5 % (6KV / 10mA at Resistive Load)		
Hi-Limit DC current, mA	0.02 - 5.00	0.01	± (2% of setting + 2 counts)	0.02 - 10.00	0.01	± (2% of setting + 2 counts)
Lo-Limit DC current, mA	0.00 - 5.00	0.01	± (2% of setting + 2 counts)	0.00 - 10.00	0.01	± (2% of setting + 2 counts)
Ramp Time, second	0.2 - 180.0	0.1	± (0.1% of setting + 0.05 sec)	0.2 - 180.0	0.1	± (0.1% of setting + 0.05 sec)
Dwell Time, second	0, 0.2 - 60.0 (0=continuous)	0.1	± (0.1% of setting + 0.05 sec)	0, 0.2 - 60.0 (0=continuous)	0.1	± (0.1% of setting + 0.05 sec)
Discharge Time	< 50 msec for no load, < 200 msec for capacitor load			< 50 msec for no load, < 100 msec for capacitor load		
Maximum Capacitive Load DC Mode	1µF < 1KV			0.08µF < 4KV		
	0.75µF < 2KV			0.04µF < 5KV		
	0.5µF < 3KV			0.015uF < 6KV		

440 SERIES SPECIFICATIONS

MODEL	SCI 446			SCI 448		
	Range	Resolution	Accuracy	Range	Resolution	Accuracy
INSULATION RESISTANCE						
Output Voltage, VDC	100 - 1000	1	± (2% of setting + 5V)	100 - 1000	1	± (2% of setting + 5V)
Hi-Limit resistance, MΩ	0, 1 - 1000 (0 = OFF)	1	100-499V ± (7% of setting + 2 counts)	0, 1 - 1000 0 = OFF)	1	100-499V ± (7% of setting + 2 counts)
Lo-Limit resistance, MΩ	1 - 1000	1	500-1000V ± (3% of setting + 2 counts)	1 - 1000	1	500-1000V ± (3% of setting + 2 counts)
Ramp Time , second	0.1 or 2.0	0.1	± (0.1% of setting + 0.05 sec)	0.1 or 2.0	0.1	± (0.1% of setting + 0.05 sec)
Delay Time, second	0, 0.5 - 999.9 (0=continuous)	0.1	± (0.1% of setting + 0.05 sec)	0, 0.5 - 999.9	0.1	± (0.1% of setting + 0.05 sec)
GROUND BOND						
Output AC Current, A	1.0 – 40.0	0.1	± (2 % of setting + 2 counts)	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/0–600mΩ,10.1–30.0A/0–200mΩ,30.1–40.0A/0–150mΩ					
Offset, mΩ	0-100	1	± (2 % of setting + 2 counts)	0-100	1	± (2 % of setting + 2 counts)
HI and LO-Limit Resistance, mΩ	0 – 150 (30.1-40.0A)	1	± (2 % of setting + 2 counts)	0 – 150 (30.1-40.0A)	1	± (2 % of setting + 2 counts)
	0 – 200 (10.1-30.0A)			0 – 200 (10.1-30.0A)		
	0 – 600 (1.0-10.0A)			0 – 600 (1.0-10.0A)		
Fix Ramp Timer, second	0.4	0.1	± 0.05 sec	0.4	0.1	± 0.05 sec
	0-250mOhm à 0.1sec ramp up 251-300mOhm à 0.2sec ramp up 301-450mOhm à 0.3sec ramp up >450mOhm = 0.4sec					
Dwell Timer, second	0, 0.1 - 240.0 (0 = continuous)	0.1	± 0.05 sec	0, 0.1 - 240.0 (0 = continuous)	0.1	± 0.05 sec
GENERAL SPECIFICATIONS						
Memories	Allows storage of up to 20 different test programs and a single step mode					
Remote I/O	Input: Test, Reset, Interlock & Recall Memory 1 – 6 Output: Pass, Fail, Test-in-Process					
Interface	USB (Optional)					
Security	Lockout capability to avoid unauthorized access to test set-up programs					
Calibration	Software and adjustments made through the front panel					
Dimension	280mm(W) ×89mm(H) × 400 mm(D)			430mm(W) ×132mm(H) × 400 mm(D)		
Weight	18lbs (8kg)			53lbs (24kg)		