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	•	•	•

RELEVANT APPLICATIONS

APPLIANCE INDUSTRIAL EQUIPMENT INFORMATION TECHNOLOGY CONTRACT MANUFACTURING LABORATORY EQUIPMENT

446

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WHAT'S IN THE BOX

OPTIONS

Description

Rear Outputs

0

USB Port

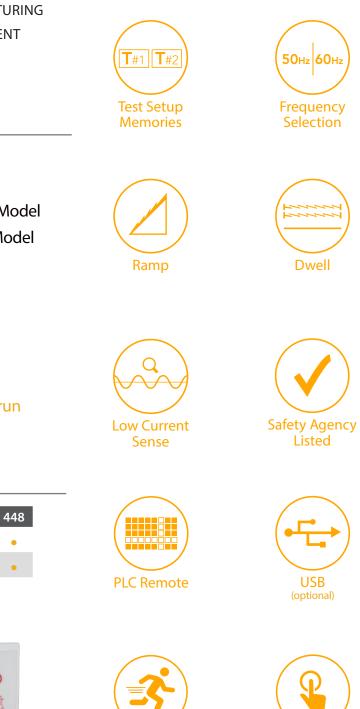
125-013-001	Power Cord (10A) 6ft - *446 Model
99-10164-01	Power Cord (15A) 6ft - *448 Model
99-10783-01	Fuse 10A Slow Blow 20mm - *446 Mode
99-10168-01	Fuse 15A Fast Blow 30mm - *448 Model
99-10040-01	Interlock Connector Male
99-10866-01	Ground Bond Test Lead
99-10865-01	Ground Bond Return Lead
102-055-913	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.

M01 ACW 1.0 1.24kUAC 10.00m

SCI 448

SERIES FEATURES



On the Go Portability

Safer World Through Safety Testir

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Intuitive User

Interface

440 SERIES SPECIFICATIONS

INPUT (446 and 448)

Voltage	100 - 120Vac / 200 - 240Vac±10% Auto Range		
Frequency	$50/60Hz \pm 5\%$		
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	
	448	5 KV @ 99.99 mA AC 6 KV @ 10 mA DC	1
Voltage Setting/Display	Range	0 – 5.00 KV AC 0 – 6.00 KV DC	
	Resolution	0.01	
	Accuracy	\pm (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)	
	448	Range: 0 - 99.99 mA AC, 0 - 10.00 mA DC Resolution: 0.01 mA Accuracy: ± (2% of reading + 0.06 mA)	
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)	
	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)	
	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)	S
	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	< 50 ms for no load, < 200 ms for capacitor load	
	448	< 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		
AC Output	50Hz/60Hz \pm 0.1%, User Selection		

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.

Frequency

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 S0Hz/60Hz ± 0.1%, User Selectable Maximum Loading 1.0-10.0A/0-600mΩ,10.1-30.0A/0-30.1-40.0A/0-150mΩ

GROUND BOND

Loading	1.0–10.0A/0–600mΩ,10.1–30.0A/0–200mΩ, 30.1–40.0A/0–150mΩ	
Offset, mΩ	Range: Resolution: Accuracy:	0-100 1 ± (2 % of setting + 2 counts)
HI and LO-Limit Resistance, m Ω	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 = 0.1sec ramp up -300mOhm = 0.2sec ramp up -450mOhm = 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 SPECIFICATIONS			
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 adjustments made through the front panel		
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 change without notice			

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