

4000 SERIES 4-IN-1 ELECTRICAL SAFETY TESTERS



See how simple using our tester can be!



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.



RELEVANT APPLICATIONS

APPLIANCE

INDUSTRIAL EQUIPMENT

INFORMATION TECHNOLOG

CONTRACT MANUFACTURII

SUPPLIED ACCESSOR

- High Voltage 102-050-913
- 102-055-913 **High Voltage**
- Input Power C 125-013-001
- Input Power C 99-10164-01
- 30 Amp High 99-10008-01
- 99-10009-01 30 Amp High
- Interlock Con 99-10040-01
- 99-10106-01 Fuse 4320
- 99-10656-01 Fuse 4520

OPTIONS

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



SERIES FEATURES

GY ING	T#1 T#2 Test Setup Memories	50Hz 60Hz Frequency Selection
RIES e Retractable Probe 6 ft. (1.8m) e Lead 6 ft. (1.8m) Cable USA Cable USA	Ramp	Dwell
n Current Lead 6 ft. (1.8m) n Current Return Lead 6 ft. (1.8m) nnector	Low Current Sense	Safety Agency Listed
4320 4520 ● ● ● ●	PLC Remote	RS-232 (optional)
	MODEL 4520	

4000 SERIES SPECIFICATIONS

INPUT

4320	115/230 VAC \pm 15%, user selection
4520	115/230V Auto Range, \pm 15% variation
$50/60Hz\pm5\%$	
4320	6.3 A 250 V slow blow
4520	15 A slow blow 250 VAC
	4520 50/60 Hz ± 5% 4320

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	\leq 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 M Ω (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	$M\Omega (0 = off)$	
LO-Limit	Range:		1 - 1000 N	IΩ	
Delay Timer	Range: Resolution: Accuracy:	:	0, 0.5 - 999.9 sec, (0 = continuous) 0.1 sec ± (0.1% of 0.05 sec)		nuous)
GROUND BOND T	EST MOD	E			
Output Voltage	Range:		6 VAC fixe	d	
Output Frequency	Range:		50/60 Hz, i	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:	Accuracy: $\pm (2\% \text{ of setting} + 2 \text{ m}\Omega)$			
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 SPECIF	CATIONS				
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			emory 1-6
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 rac	k mo	ount with til	t up front feet (45	20 Only)
Dimensions	4320 11"		1" x 3.5" x 17" (280 x 89 x 430 mm)		
(W x H x D)	4520	4520 16.9" x 5.2" x 15.7" (430 x 133 x 400 mm)			400 mm)
Weight	4320				
	4520	54	IDS. (24.5 Kg	J)	

Specifications subject to change without notice.

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