HypotULTRA®

The Most Flexible and Feature-Rich Automated Dielectric Analyzer Available



Our HypotULTRA® models provide all the tools you need to modernize your production line with best-in-class 4-in-1 test capability and a slim 2U design. We've added 40A AC Ground Bond test capability to HypotULTRA's already impressive feature list for manufacturers that aim to adopt best testing practices without sacrificing productivity. Whether you're looking to improve traceability with onboard data storage, increase efficiency with our intuitive touch screen interface and direct barcode scanner connection, or automate with a variety of communication interfaces, HypotULTRA was designed to take your production line to the next level.



Find the Model that Fits Your Testing Needs

	AC Hipot	DC Hipot	40A Ground Bond	Ground Continuity	Insulation Resistance	EN 50191 COMPLIANT
7800	500 VA*	•		•	•	
7804	•	•	•	•	•	•
7820	•			•		•
7850	•	•		•	•	•
7854	500 VA*	•	•	•	•	

*Meets 200 mA short circuit requirements

AVAILABLE INTERFACES







Ethernet



SAFETY & PRODUCTIVITY



FEATURES





Automatic Easily disable operator shock HHENGERT protection



Easily import/ export test files and data via USB



Barcode Direct barcode Capalotian



Multiple Languages Multi-Language ukanigutarjese



Ground Bond Voltage Drop Monitor voltage drop vs resistance



Multi-dwell cycles at different voltages for ACW/DCW/IR



Multiplexer Available with Motitioalekel (4 or 8 ports)



Multiplexer Compatible With 1506540







Prompth&tHold Provides alerts & instructions betwie and tests



Software Compatible







Reduce ramp time during



proper DUT connection



PLC Remote Basic PLC



Negative DC Hipot Reverse Doc latiphyot DC Hipot



OntBoatoda Data Storage 10000005Test Results on-board



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HypotULTRA® Series

						HypotULI RA® Series	
INPUT SPECIFICA	TIONS			INSULATION RESISTA	NCE MODE	(Models 7800/7804/7850 & 7854 Only)	
Voltage	100 – 120 VA	100 – 120 VAC / 200 – 240 VAC ± 10% Auto Range		Charging Current HI	Maximum >	20 mA peak	
Frequency	50/60 Hz ± 5	60 Hz ± 5%		and LO-Limit	Range:	0.10 MΩ – 99.9 MΩ (HI-Limit: 0=OFF)	
Fuse	7804	4/7820/7850:	6.3A, Slow Blow 250 VAC		Resolution: Accuracy:	0.01 MΩ ± (2% of setting + 2 counts)	
	7800/7854: 15A, Fast Blow 250 VAC			Range:	100.0 ΜΩ – 999.9 ΜΩ		
AC WITHSTAND	TEST MODE	(All Models	5)		Resolution: Accuracy:	0.1 M Ω 1,000 – 9,999 ± (5% of setting + 2 counts)	
Output Voltage	Range: 0 – 5,000 VAC Resolution: 1 VAC Accuracy: \pm (2% of setting + 5V)			Range: Resolution:	1,000 MΩ – 50,000 MΩ		
					1 ΜΩ		
Output Frequency	50/60 Hz ± 0	50/60 Hz ± 0.1%, User Selection		Daniel Ha Timon	Accuracy:	10,000 – 50,000 ± (15% of setting + 2 counts)	
Output Waveform	Sine Wave, C	Sine Wave, Crest Factor = 1.3 – 1.5		Ramp Up Timer	Range:	0.1 – 999.9 sec 1.0 – 999.9 sec	
Output Regulation	± (1% of out	(1% of output + 5V)		Ramp Down Timer Dwell Timer	Range:	0.5 – 999.9 sec (0=Continuous)	
HI and LO-Limit Total	Total	Range:	0.000 – 9.999 mA	Delay Timer		0.5 – 999.9 sec	
		Range: Resolution:	0.001 mA 10.00 – 40.00 mA (10 – 99.99 mA, Models 7800/7854) 0.01 mA ± (2% of setting + 2 counts) 7804/7820/7850 ± (2% of setting + 6 counts) 7800/7854	Charge-LO	_	0 µA or Auto Set	
						<u>. • </u>	
				CONTINUITY TEST MODE (All Models) Output Current, DC 1 A for 0.000 – 1.000 Ω, 0.1 A for 1.01 – 10.00 Ω			
	Real	Resolution: Range: Resolution:	0.000 – 9.999 mA 0.001 mA	0.01 A		01 A for 10.01 – 100 Ω, 0.001 A for 101 – 1,000 Ω	
			10.00 – 40.00 mA (10 – 99.99 mA 7800/785 0.01 mA			1001 – 10,000 Ω, 1 A is Max	
			\pm (3% of setting + 50 μ A)	Resistance Display Max & Min	Range: Resolution:	0.000 – 1.000 Ω 0.001 Ω	
Ramp Up Timer Ramp Down Timer	Range: Range:	0.1 – 999.9 se 0.0 – 999.9 s		Max-Lmt	Accuracy:	± (1% of setting + 3 counts)	
Dwell Timer			9 sec (0=Continuous)		Range: Resolution:	1.01 – 10.00 Ω 0.01 Ω	
Ground Continuity	Current: DC	0.1A ± 0.01A,	fixed		Accuracy:	± (1% of setting + 3 counts)	
Current	Max. Ground	d Resistance: 1	$1.0 \Omega \pm 0.1 \Omega$		Range: Resolution:	10.1 – 100.0 Ω 0.1 Ω	
Arc Detection	Range:	1 – 9 (9 is m	ost sensitive)		Accuracy:	± (1% of setting + 3 counts)	
DC WITHSTAND	TEST MODE	(Models 78	800/7804/7850 & 7854 Only)		Range: Resolution:	101 – 1,000 Ω 1 Ω	
Output Voltage	Range:	0 – 6000 VD	С		Accuracy:	± (1% of setting + 3 counts)	
	Resolution: 1 V Accuracy: ± (2% of setting + 5 V)			Range: Resolution:	1,001 – 10,000 Ω 1 Ω		
DC Output Ripple	<4% (6 KV/1	<4% (6 KV/10 mA at Resistive Load)			Accuracy:	± (1% of setting + 10 counts)	
HI and LO-Limit	Range: 0.0000 – 0.9999 µA 0.0001 µA Accuracy: ± (2% of setting + 10 counts), Low Range is ON		Dwell Timer	Range:	0, 0.4 – 999.9 sec (0=Continuous)		
			Resistance Offset	Range:	0.000 – 10.00 Ω		
	Range: Resolution:	1.000 – 9.999 μA 0.001 μA		GROUND BOND TEST	MODE (Mo	dels 7804 & 7854 Only)	
	Accuracy:	± (2% of setting + 10 counts), Low Range is ON		Output Voltage (Open Circuit Voltage)	Range: Resolution: Accuracy:	3.00 – 8.00 VAC 0.01 VAC	
	Range: Resolution:	0.01 μΑ				± (2% of setting + 3 counts) Open Circuit	
	Accuracy:	± (2% of setting + 10 counts), Low Range is ON 100.0 – 999.9 μA 0.1 μA ± (2% of setting + 2 counts)		Output Current	Range: Resolution: Accuracy:	1.00 – 40.00 A 0.01 A ± (2% of setting + 2 counts)	
	Range: Resolution: Accuracy:						
	Range:	1,000 – 20,000 μA range (7804/54) 1,000 – 10,000μA range (7800/50) 1 μA		Maximum Loading	1.00 – 10.00 A, 0 – 600 mΩ		
	Resolution:				10.01 - 30.00 A, $0 - 200$ mΩ $30.01 - 40.00$ A, $0 - 150$ mΩ		
	Accuracy:	± (2% of sett	ting + 2 counts)	HI and LO-Limit	Range:	0 – 150 mΩ for 30.01 – 40.00 A	
Ramp Up Timer	Range:		ec, Low Range is OFF ec, Low Range is ON			$0 - 200$ m Ω for $10.01 - 30.00$ A $0 - 600$ m Ω for $1.00 - 10.01$ A	
Ramp Down Timer	Range:		9.9 sec (0=OFF)		Resolution: Accuracy:	1 m Ω ± (2% of setting + 2 counts)	
Dwell Timer	Range:		9 sec (0=Continuous)		Range:	0 – 600 mΩ	
Dame III.C. L L.			P sec, Low Range is ON		Resolution: Accuracy:	1 m Ω ± (3% of setting + 3 counts)	
Charge I O	Range:	0 – 20 mA se		Dwell Timer	Range:	0, 0.5 – 999.9 sec (0=Continuous)	
Charge-LO	Range:			Milliohm Offset	0 – 200 mΩ		
Discharge Time		0 ms for no load, < 100 ms for capacitive load		Voltage Offset	0.0 - 6.0 V		
Maximum Capacitive Load DC Mode	1µF < 1kV 0.0 µF < 4 kV 0.75 µF < 2 kV 0.04 µF < 5 kV 0.5 µF < 2 kV 0.015 µF < 6 kV		GENERAL SPECIFICATIONS				
Arc Detection		$0.5 \mu \dot{F} < 3 kV$ $0.015 \mu \dot{F} < 6 kV$ Range: 1 – 9 (9 is most sensitive)		Memory			
	-			100,000 test results			
	Range: 10 – 1,000 VDC Resolution: 1 VDC Accuracy + 7% of setting + 2 counts		Mechanical	Bench or rackmount (2U height) with feet			
Output Voltage, DC			Interface	Standard: USB, RS-232 Optional: GPIB (IEEE-488.2), Ethernet or USB Printer			
	Accuracy: ± (2% of setting + 2 counts) Range: 1 001 – 6 000 VDC			SmartGFI®	0, 0.4 – 5.0 mA (0=OFF)		
	Range: 1,001 – 6,000 VDC Resolution: 1 VDC Accuracy: ± (2% of setting + 5 V)		Dimensions (W x H x D)	0, 0.4 – 5.0 mA (0=OFF) 16.92" x 3.50" x 15.75" (430 x 88.1 x 400mm)			
	Accuracy:	- (2 /0 OI Sett	g . 🗸 👣		7800:		
		Power		Weight	7804:	41 lbs (18.6 kg)	
Cal	TOV				7820: 7850:		
					7854:	46.3 lbs (21 kg)	



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