HypotULTRA®

The Most Flexible and Feature-Rich Automated Dielectric Analyzer Available









Our new 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 on-board 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



*Meets 200 mA short circuit requirements

AVAILABLE INTERFACES





RS-232





Ethernet

SAFETY & PRODUCTIVITY FEATURES







Remote Safety Interlock Easily disable HV output protection



Easily import/ export test files and data via USB



Barcode Capability Direct barcode connection



Multiple Languages Multi-Language user interface



Ground Bond Voltage Drop Monitor voltage drop vs resistance



ProVOLT[®] Multi-dwell cycles at different voltages for ACW/DCW/IR



Multiplexer Available with optional HV multiplexer (4 or 8 ports)



Modular Multiplexer Compatible with SC6540 multiplexers



FailCHFKT Confirms detection



Prompt & Hold Provides alerts & instructions hetween tests



Autoware®3 Advanced Control Software







Ramp-HI® Reduce ramp time during DC Hipot



Charge-LO® Confirms proper DUT connection



PLC Remote Basic PLC relay control



Negative DC Hipot Reverse polarity DC Hipot (optional)



On Board Data Storage Save up to 100,000 Test Results on-board

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INPUT SPECIFICA				INSULATION RESISTANCE MODE (Models 7800/7804/7850 & 7854 Only)		
Voltage	100 – 120 VAC / 200 – 240 VAC ± 10% Auto Range		Charging Current HI and LO-Limit	Maximum > 20 mA peak		
Frequency	50/60 Hz ± 5%		and to time	Range: Resolution:	0.10 M Ω – 99.9 M Ω (HI-Limit: 0=OFF) 0.01 M Ω	
Fuse	7804/7820/7850:		6.3A, Slow Blow 250 VAC		Accuracy:	
	7800/7854: 15A, Fast Blow 250 VAC				Range:	100.0 ΜΩ – 999.9 ΜΩ
AC WITHSTAND 1	C WITHSTAND TEST MODE (All Models)				Resolution: Accuracy:	0.1 M Ω 1,000 – 9,999 ± (5% of setting + 2 counts)
Output Voltage	Range: 0 – 5,000 VA Resolution: 1 VAC		AC .		Range:	1,000 ΜΩ – 50,000 ΜΩ
	Accuracy: ± (2% of setting + 5V)				Resolution: Accuracy:	1 M Ω 10,000 – 50,000 ± (15% of setting + 2 counts)
Output Frequency	50/60 Hz ± 0.1%, User Selection		ection	Ramp Up Timer	Range:	0.1 – 999.9 sec
Output Waveform	Sine Wave, Crest Factor = 1.3 – 1.5			Ramp Down Timer	Range:	1.0 – 999.9 sec
Output Regulation	± (1% of output + 5V)			Dwell Timer	Range:	0.5 – 999.9 sec (0=Continuous)
HI and LO-Limit Total	Total	Range: Resolution: Range: Resolution: Accuracy:	0.000 – 9,999 mA 0.001 mA 10.00 – 30.00 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	Delay Timer	Range:	0.5 – 999.9 sec
				Charge-LO	0.000 – 3.50	0 μA or Auto Set
				CONTINUITY TEST MO	DDE (All Mo	odels)
				Output Current, DC 1 A for 0.000 – 1.000 Ω, 0.1 A for 1.01 – 10.00 Ω		
	Real	Range: Resolution: Range: Resolution: Accuracy:	0.000 – 9.999 mA 0.001 mA 10.00 – 30.00 mA (10 – 99.99 mA 7800/7854) 0.01 mA ± (3% of setting + 50 µA)		0.01 A for 10.01 – 100 Ω, 0.001 A for 101 – 1,000 Ω 0.0001 A for 1001 – 10,000 Ω, 1 A is Max	
				Resistance Display Max & Min	Range:	0.000 – 1.000 Ω
					Resolution:	0.001 Ω ± (1% of setting + 3 counts)
			- '	Max-Lmt	,	
Ramp Up Timer	Range:	0.1 – 999.9 s			Range: Resolution:	1.01 – 10.00 Ω 0.01 Ω
Ramp Down Timer	Range:	0.0 – 999.9 s			Accuracy:	± (1% of setting + 3 counts)
Dwell Timer	J	Range: 0, 0.2 – 999.9 sec (0=Continuous)			Range: Resolution:	10.1 – 100.0 Ω 0.1 Ω
Ground Continuity	Current: DC 0.1A ± 0.01A, fixed				Accuracy:	± (1% of setting + 3 counts)
Current	Max. Ground Resistance: $1.0 \Omega \pm 0.1 \Omega$		Range: Resolution:		101 – 1,000 Ω 1 Ω	
Arc Detection	Range: 1 – 9 ranges (9 is most sensitive)				Accuracy:	± (1% of setting + 3 counts)
			800/7804/7850 & 7854 Only)		Range: Resolution:	1,001 – 10,000 Ω 1 Ω
Output Voltage	Range: 0 – 6000 VDC Resolution: 1 V Accuracy: ± (2% of setting + 5 V)				Accuracy:	± (1% of setting + 10 counts)
				Dwell Timer	Range:	0, 0.4 – 999.9 sec (0=Continuous)
DC Output Ripple	<4% (6 KV/10 mA at Resistive Load)			Resistance OffsetRange: $0.000 - 10.00 \Omega$		
HI and LO-Limit	Range: 0.0000 – 0.999 Resolution: 0.0001 µA		·		MODE (Mo	odels 7804 & 7854 Only)
	Accuracy:			Output Voltage (Open Circuit Voltage)	Range: Resolution: Accuracy:	3.00 – 8.00 VAC 0.01 VAC
	Range: Resolution:	1.000 – 9.999 µA 0.001 µA				± (2% of setting + 3 counts) Open Circuit
	Accuracy:	± (2% of setting + 10 counts), Low Range is ON		Output Current	Range: Resolution:	1.00 – 40.00 A 0.01 A
	Range: Resolution: Accuracy: Range: Resolution: Accuracy:	± (2% of setting + 10 counts), Low Range is ON 100.0 – 999.9 μA 0.1 μA ± (2% of setting + 2 counts) 1,000 – 20,000 μA range (7804/54) 1,000 – 10,000 μA range (7800/50)				
				Maximum Loading		A, 0 – 600 mΩ
					10.01 - 30.00 A, $0 - 200$ mΩ $30.01 - 40.00$ A, $0 - 150$ mΩ	
				HI and LO-Limit	Range:	0 – 200 mΩ for 10.01 – 30.00 A 0 – 600 mΩ for 1.00 – 10.01 A
Ramp Up Timer	Range:		ec, Low Range is OFF		Range:	0 – 600 mΩ
			ec, Low Range is ON		Resolution: Accuracy:	1 m Ω ± (3% of setting + 3 counts)
Ramp Down Timer	Range:		9.9 sec (0=OFF)	Dwell Timer	Range:	0, 0.5 – 999.9 sec (0=Continuous)
Dwell Timer	Range:	0, 0.4 – 999. 0, 1.0 – 999.	9 sec (0=Continuous) 9 sec, Low Range is ON	Milliohm Offset	0 – 200 mΩ	
Ramp-HI Selectable	Range:	0 – 20 mA se	electable	Voltage Offset	0.0 - 6.0 V	
Charge-LO	Range:	nge: 0.0 – 350.0 μA DC or Auto Set		GENERAL SPECIFICATIONS		
Discharge Time	< 50 ms for no load, < 100 ms for capacitive load			Memory	2,000 steps,	200 steps per test file max
Maximum	1μF < 1kV 0.0 μF < 4 kV				100,000 test results	
Capacitive Load DC Mode	0.75 μF < 2 kV			Mechanical	Bench or rackmount (2U height) with feet Standard: USB, RS-232 Optional: GPIB (IEEE-488.2), Ethernet or USB Printer	
Arc Detection	Range: 1 – 9 ranges (9 is most sensitive)		Interface			
	TION RESISTANCE MODE (Models 7800/7804/7850 & 7854 Only)			SmartGFI®	0, 0.4 – 5.0 mA (0=OFF)	
		10 – 1,000 V	•	Dimensions (W x H x D)		0" x 15.75" (430 x 88.1 x 400mm)
Output Voltage, DC	Resolution: Accuracy:	1 VDC ± (2% of setting + 2 counts)		Weight	7800: 45 lbs (20.4 kg) 7804: 41 lbs (18.6 kg) 7820: 34 lbs (15.4 kg)	
	Range:	1,001 – 6,000 VDC				
	Resolution: Accuracy:	1,001 – 6,00 1 VDC ± (2% of set			7850:	35 lbs (15.9 kg)
	Accuracy.	- \2 70 OI SEL	g . 3 •/		7854:	46.3 lbs (21 kg)

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