HypotULTRA®

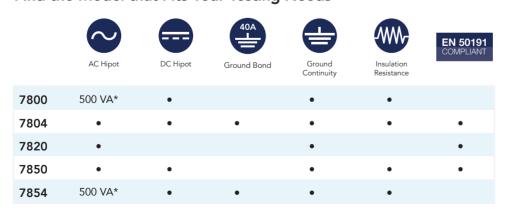
The Most Flexible and Feature-Rich Automated Dielectric Analyzer Available



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



^{*}Meets 200 mA short circuit requirements

AVAILABLE INTERFACES









Ethernet

GPIB

SAFETY & PRODUCTIVITY **FEATURES**







Automatic operator shock protection

Easily disable HV output

export test files and data via USB



Barcode Capability Direct barcode connection



Multiple Languages Multi-Language user



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)



Modulai Multiplexer Compatible with SC6540 multiplexers







Hold Provides alerts & instructions between tests



WithStand® Automation Software



Advanced User Security Customize ID & password protection



Ramp-HI® Reduce ramp time during DC Hipot



Confirms

proper DUT



relay control





Negative DC Hipot polarity DC Hipot (optional)



On Board Data Storage Save up to 100.000 Test Results onboard

HypotULTRA® Series

						HypotULI RA® Series	
INPUT SPECIFICA	ATIONS			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 LO-Limit	Range: Resolution: Accuracy:	0.10 M Ω – 99.9 M Ω (HI-Limit: 0=OFF) 0.01 M Ω ± (2% of setting + 2 counts)	
Fuse	7804/7820/7850:		6.3A, Slow Blow 250 VAC				
		7800/7854:	15A, Fast Blow 250 VAC		Range:	100.0 ΜΩ – 999.9 ΜΩ	
AC WITHSTAND					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 Accuracy: ± (1.5% of se				Range:	1,000 MΩ – 50,000 MΩ 1 MΩ	
Output Frequency	50/60 Hz ± 0.19	6, User Select	ion	D 11 T	Accuracy:	10,000 – 50,000 ± (15% of setting + 2 counts)	
Output Waveform	Sine Wave, Crest Factor = 1.3 – 1.5			Ramp Up Timer Ramp Down Timer	Range:	0.1 – 999.9 sec 1.0 – 999.9 sec	
Output Regu- lation	± (1% of output + 5V)			Dwell Timer	Range:	0.5 – 999.9 sec (0=Continuous)	
HI and LO-Limit Total	Total Range: 0.000		0.000 – 9.999 mA	Delay Timer	Range:	0.5 – 999.9 sec	
		Resolution: Range: Resolution: Accuracy:	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	Charge-LO		μA or Auto Set	
				CONTINUITY TEST M	Г MODE (All Models)		
				Output Current, DC 1 A for 0.000 – 1.000 Ω, 0.1 A for 1.01 – 10.00 Ω			
					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		
	Real	Range: Resolu- tion: Range: Resolu- tion:	0.000 – 9.999 mA 0.001 mA 10.00 – 40.00 mA (10 – 99.99 mA 7800/7854) 0.01 mA ± (3% of setting + 50 µA)	Resistance Display Max & Min Max-Lmt	Range: Resolution: Accuracy:	$0.000 - 1.000 \Omega$ 0.001Ω $\pm (1\% \text{ of setting} + 3 \text{ counts})$	
Ramp Up Timer	Range:	Accuracy: 0.1 – 999.9 s	sec		Range: Resolution: Accuracy:	$1.01 - 10.00 \Omega$ 0.01Ω $\pm (1\% \text{ of setting} + 3 \text{ counts})$	
Ramp Down Timer Dwell Timer Ground Conti-	Range:	Range: $0.0 - 999.9 \text{ sec}$ Range: $0, 0.2 - 999.9 \text{ sec}$ (0=Continuous) Current: DC $0.1A \pm 0.01A$, fixed Max. Ground Resistance: $1.0 \Omega \pm 0.1 \Omega$ Range: $1 - 9$ (9 is most sensitive)			Range: Resolution: Accuracy:	10.1 – 100.0 Ω 0.1 Ω ± (1% of setting + 3 counts)	
nuity Current	May Ground P				Range: Resolution:	101 – 1,000 Ω 1 Ω	
Arc Detection					Accuracy:	± (1% of setting + 3 counts)	
			00/7804/7850 & 7854 Only)		Range: Resolution:	1,001 – 10,000 Ω 1 Ω	
Output Voltage	Range:	Range: 0 – 6000 VDC Resolution: 1 V Accuracy: ± (1.5% 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 m	nA at Resistive	e Load)	Resistance Offset Range: 0.000 – 10.00 Ω GROUND BOND TEST MODE (Models 7804 & 7854 Only)			
HI and LO-Limit	Range: 0.0000 – 0.9999 μΑ Resolution: 0.0001 μΑ Accuracy: ± (2% of setting + 10 counts), Low Range is ON		Output Voltage (Open Circuit Voltage)	Range:	3.00 – 8.00 VAC 0.01 VAC		
	Range: Resolution: Accuracy:	n: 0.001 µA		Output Current	Accuracy:	± (2% of setting + 3 counts) Open Circuit 1.00 – 40.00 A	
		Range: 10.00 – 99.99 µA olution: 0.01 µA		Maximum Landing		0.01 A ± (2% of setting + 2 counts)	
	Range: 100.0 – 999.9 µA Resolution: 0.1 µA Accuracy: ± (2% of setting + 2 counts)		Maximum Loading	1.00 – 10.00 A, 0 – 600 mΩ 10.01 – 30.00 A, 0 – 200 mΩ 30.01 – 40.00 A, 0 – 150 mΩ			
	Range: Resolution: Accuracy:	1,000 – 20,0 1,000 – 10,0 1 µA	000 μA range (7804/54) 000μA range (7800/50) ting + 2 counts)	HI and LO-Limit	Range: Resolution: Accuracy:	$\begin{array}{l} 0-150 \ m\Omega \ for \ 30.01-40.00 \ A \\ 0-200 \ m\Omega \ for \ 10.01-30.00 \ A \\ 0-600 \ m\Omega \ for \ 1.00-10.01 \ A \\ 1 \ m\Omega \\ \pm (2\% \ of \ setting + 2 \ counts) \end{array}$	
Ramp Up Timer	Range:	0.4 - 999.9 s 0.5 - 999.9 s	ec, Low Range is OFF sec, Low Range is ON		Range: Resolution:	$0 - 600 \text{ m}\Omega$ $1 \text{ m}\Omega$	
Ramp Down Timer	Range:		9.9 sec (0=OFF)	Dwell Timer	Accuracy:	± (3% of setting + 3 counts) 0, 0.5 – 999.9 sec (0=Continuous)	
Dwell Timer	Range:		9 sec (0=Continuous) 9 sec, Low Range is ON	Milliohm Offset	0 – 200 mΩ	5, 5.5 7777, 500 (0 - Continuous)	
Ramp-HI Select- able	Range:	0 – 20 mA s	electable	Voltage Offset	0.0 - 6.0 V	V	
Charge-LO	Range:	0.0 – 350.0	μΑ DC or Auto Set	GENERAL SPECIFICA	TIONS	IONS	
Discharge Time	< 50 ms for no load, < 100 ms for capacitive load		Memory	2,000 steps, 200 steps per test file max 100,000 test results			
Maximum Capacitive Load DC Mode	1μF < 1kV 0.75 μF < 2 kV 0.5 μF < 3 kV	0.75 μF < 2 kV 0.04 μF < 5 kV		Mechanical	Bench or rackmount (2U height) with feet		
Arc Detection	Range:	Range: 1 – 9 (9 is most sensitive)		Interface	Standard: USB, RS-232 Optional: GPIB (IEEE-488.2), Ethernet or USB Printer		
INSULATION RES	SISTANCE MO	DE (Models	s 7800/7804/7850 & 7854 Only)	SmartGFI®	0, 0.4 – 5.0 mA (0=OFF)		
Output Voltage, DC	Range: 10 – 1,000 VDC		Dimensions (W x H x D)		x 15.75" (430 x 88.1 x 400mm)		
	Resolution: Accuracy: Range:	1 VDC	etting + 2 counts)	Weight	7800: 7804: 7820:	45 lbs (20.4 kg) 41 lbs (18.6 kg) 34 lbs (15.4 kg)	
	Resolution: 1 VDC		setting + 5 V)		7850: 7854:		

For reading specifications, please refer to the user manual.

Specifications subject to change without notice.

Call **+60-3-78429168**