Instruments for

ELECTRICAL SAFETY COMPLIANCE TESTING



- HIPOT TESTERS
- GROUND BOND TESTERS
- INSULATION RESISTANCE
- LINE LEAKAGE TESTERS
- FUNCTIONAL RUN TESTERS
- MEDICAL TEST SYSTEMS
- HV/HC SCANNING MATRICES
- SOFTWARE SOLUTIONS



Safety Is Our Only Focus[™]





Safety agency listed.

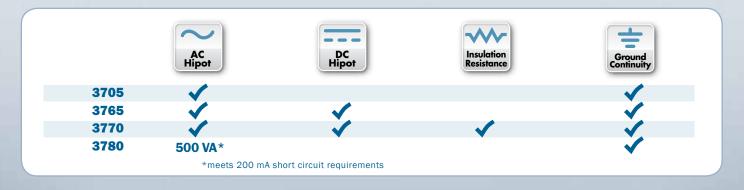


Choose from the following at no charge:



The production line Hipot tester that sets the standard.

Our Hypot III series of manual Hipot testers sets the standard for production line safety compliance testing. We've packed these instruments with productivityenhancing features and proven safety technology to reduce the safety compliance bottleneck on the production line. All models include basic Continuity test capability for compliance with international standards as well as advanced functions like our patented SmartGFI operator safety circuit and PLC I/O. Interconnect the Hypot III with a HYAMP III Ground Bond tester to form a complete safety compliance test system. Interested in automation and data collection? The Hypot III series is now available with a standard RS-232 interface.









Input Specifications Voltage				Dielectric Withstand Test Mode (continued) Ground Continuity Current DC 0.1 A ± 0.01 A, fixed		
3705/3765/3770	115/230 V	AC ± 10%, user selectable	Ground Continuity Cur	ICIIL	$D \cup U \downarrow X \pm U \cup U \downarrow X$, lixeu	
3780	115/230 VAC ± 15%, automatically selected		Ground Continuity	Range:	0.0 Ω - 1.50 Ω	
Frequency	50/60 Hz ±	: 5%	Maximum Limi Minimum Limi		\pm (3% of setting + 0.02 Ω)	
Fuse						
3705/3765/3770 3.15 A, fast acting 250 VAC		Ground Continuity Auto Offse	Range: t Resolution	0.0 Ω - 0.50 Ω • 0.01 Ω		
3780	15 Amp, Slow Blow 250 VAC				\pm (3% of setting + 0.02 Ω)	
Dielectric With Output Rating	<u>stand Te</u>	st Mode	Output Short Circuit Current 3780) > 200 mA		
3705/3765/3770	5000 V @ 2	20 mAAC				
	6000 V @ 7.5 mADC					
3780	5000 V @ 1	LOO mAAC	Voltage Setting	Range: Resolution	30 - 1000 VDC : 1 V	
Maximum Limit					\pm (2% of setting + 5 V)	
3705/3765/3770 AC	Range:	0.00 - 20.00 mA	Resistance Display	Range:	1 - 9999 M Ω (4 Digit, Auto Ranging)	
DC	Resolution:		Resistance Display		: 500 VDC - 1000 VDC	
DC	Range: Resolution:	0 - 7500 μΑ : 1 μΑ		MΩ	ΜΩ	
		\dot{AC} and DC ± (2% of setting + 2	counts)	0.001 0.01	1.000 - 9.999 10.00 - 99.99	
3780 AC	Range:	0.00 – 99.99 mA		0.01	100.0 - 999.9	
	Resolution: Accuracy:	± (2% of setting + 6 counts)		1	1000 - 9999	
Minimum Limit	-	· - ·		Accuracy:	± (2% of reading + 2 counts) at test voltage 500 - 1000 V and 1 - 999.9 MΩ	
3705/3765/3770 AC	Range: Resolution:	0.000 - 9.999 mA : 0.001 mA			± (5% of reading + 2 counts) at test voltage	
DC	Range:	0.0 - 999.9 µA			500 - 1000 V and 1000 - 9999 MΩ	
		AC and DC \pm (2% of setting + 2	counts)		\pm (8% of reading + 2 counts) at test voltage 30 - 500 V and 1 - 1000 MΩ	
3780 AC	Range: Resolution:	0.000 - 9.999 mA : 0.001 mA	Maximum Limit	Range:	0, 1 - 9999 MΩ (0=0FF)	
		± (2% of setting + 6 counts)		Resolution		
Arc Detection	Range:	0 - 9, 0 disabled		Accuracy:	Same as Resistance Display	
	Hungo.		Minimum Limit	Range:	1 - 9999 ΜΩ	
Ground Fault	GFI Trip Cur			Resolution	: 1 MΩ	
Interrupt		own Speed: < 1ms		Accuracy:	Same as Resistance Display	
Current Display			Ramp Timer	Range:	Ramp-Up: 0.1 - 999.9 sec	
3705/3765/3770	Auto Range	e 0.000 - 3.500 mA		Decolution	Ramp-Down: 1.0 - 999.9 sec (0=0FF)	
AC	Range 1: Range 2:	3.00 - 20.00 mA		Resolution Accuracy:	± (0.1% of reading + 0.05 sec)	
DC	Range 1:	0.0 μΑ - 350.0 μΑ				
	Range 2:	0.300 mA - 3.500 mA	Delay Timer	Range:	0, 0.5 - 999.9 sec (0 = Continuous)	
	Range 3: Accuracy:	3.00 mA - 7.50 mA All Ranges ± (2% of reading + 2	counts)	Resolution Accuracy:	± (0.1% of reading + 0.05 sec)	
3780	Auto Range	;	,	-		
AC	Range 1: Range 2:	0.000 mA - 3.500 mA 3.00 - 99.99 mA	GFI Trip Current	450 µA ma	AX	
	-		HV Shut Down Speed	< 1 ms		
DC Output Ripple	≤ 5% Ripple	e rms at 6 kVDC @ 7.5 mA, Resist	IVE LOAD			
Discharge Time	≤ 200 ms		General Speci	fications		
	The maxim 0.20 µF < 1	um capacitive load vs output volt L kV 0.050 µF < 4 kV	age: Mechanical		ck mount with tilt up feet	
	0.20 μF < 2	•	Dimensions			
	0.06 µF < 3	3 kV 0.015 μF < 6 kV	3705/3765/3770	(W x H x D) 8	3.46 x 3.5 x 14.57 in. (215 x 89 x 370 mm)	
AC Voltage Waveform	Sine Wave, Crest Factor = 1.3 - 1.5		3780	()	6.93 x 5.24 x 13.78 in. (430 x 133 x 350 mm)	
Output Frequency	Range: 50 or 60 Hz, User Selectable		Weight			
	\pm (1% of output + 5 V) from no load to full load and over input voltage range.		•	20.96 lbs (9.53 kg) 49 lbs (23 kg)		
Output Voltage Regulation						
Output Voltage Regulation Dwell Timer	Range:	AC 0, 0.3 - 999.9 sec (0 = Conti DC 0, 0.4 - 999.9 sec (0 = Cont	nuous) nuous) Interface	RS-232 inte	erface standard for entry-level automation	

Specifications subject to change without notice.

For more information on testing to a specific standard, refer back to the Common Safety Standard Reference Chart.

ASSOCIATED RESEARCH, INC.



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Instruments for ELECTRICAL SAFETY COMPLIANCE TESTING

We have local sales offices throughout the world to serve you more efficiently.

To find your nearest representative visit us at www.asresearch.com or call us (USA) toll-free at +1-800-858-8378

Associated Research, Inc.

13860 West Laurel Drive Lake Forest, IL U.S.A. 60045 Tel: +1-847-367-4077 Fax: +1-847-367-4080 E-mail: info@asresearch.com