



## **Production Line Dielectric Withstand Testers**

Hypot<sup>®</sup> III is a bench top Dielectric Withstand tester with an enhanced graphic LCD. It features three testers: the 3705 an AC Hipot tester, the 3765 an AC / DC Hipot tester and the 3770 an AC / DC Hipot tester with built-in Insulation Resistance testing. All testers feature an RS-232 interface for entry-level automation.

Model 3705 - 5KV AC Hipot Tester

Model 3765 - 5KV AC, 6KV DC Hipot Tester

Model 3770 - 5KV AC, 6KV DC Hipot & Insulation Resistance Tester

## **Features and Benefits**

- RS-232 interface standard for entry-level automation
- Patented SmartGFI<sup>®</sup> safety circuit protects the operator from shock hazards
- Patented VERI-CHEK<sup>®</sup> feature prompts users through steps to validate the instrument's operation
- Patented CAL-ALERT<sup>®</sup> feature alerts the operator that the tester is due for re-calibration
- Built-in adjustable Continuity test for checking basic continuity
- Graphic LCD provides intuitive menu system to simplify the entire testing process from set-up to results
- Remote Safety Interlock feature prevents the high-voltage from being activated without the interlock enabled

- 10 Memories with 3 Steps per memory for storing and recalling test parameters
- PLC Remote Control for simple remote operation
- Interconnects with a HYAMP III Associated Research Ground Bond tester to form a complete test system
- Digitally controlled arc detection circuit allows the operator to program sensitivity levels for detecting arcs
- Minimum and maximum trip settings for safer and more accurate testing
- Comes complete with an adapter box for products terminated in a line cord

U.S. Patents: 6,744,259, 6,549,385, 6,515,484, 6,054,865. Other patents pending.



## **НҮРОТ**® Ш

Input Specifications			Dielectric Withstand Test Mode (continued)				
Voltage		115/230 VAC $\pm$ 10%, user selectable		Ground Continuity Current		DC 0.1 A $\pm$ 0.01 A, fixed	
Frequency		50/60 Hz :	± 5%	Ground Continuity Maximum Limit	Range: Resolution	0.0 Ω - 1.50 Ω : 0.01 Ω	
use		3.15 A, fas	t acting 250 VAC			$\pm$ (3% of setting + 0.02 $\Omega$ )	
Dielectric Withstand Test Mode				Ground Continuity	Range:	0.0 Ω - 0.50 Ω	
Output Rating		5000 V @ : 6000 V @ :		Auto Offset		± (3% of setting + 0.02 Ω)	
/oltage Setting		Range:	0 - 5.00 KV AC	<b>Insulation Resi</b>	stance T	est Mode	
		Resolution	0 - 6.00 KV DC	Voltage Setting	Range:	30 - 1000 VDC	
			$\pm (2\% \text{ of setting} + 5 \text{ V})$		Resolution Accuracy:	: 1 V ± (2% of setting + 5 V)	
Maximum Limit	AC	Range:	0.00 - 20.00 mA	Resistance Display	Range:	1 - 9999 M $\Omega$ (4 Digit, Auto Ranging)	
		Resolution		Recletance Diopidy		: 500 VDC - 1000 VDC	
	DC	Range:	0 - 7500 μΑ		MΩ	MΩ	
		Resolution Accuracy:	L μA AC and DC ± (2% of setting + 2 counts)		0.001 0.01	1.000 - 9.999 10.00 - 99.99	
Minimum Limit	AC	Range:	0.000 - 9.999 mA		0.1 1	100.0 - 999.9 1000 - 9999	
			: 0.001 mA			T000 - 2000	
	DC	Range: Resolution			Accuracy:	$\pm$ (2% of reading + 2 counts) at test voltage 500 - 1000 V and 1 - 999.9 M $\Omega$	
		,	AC and DC $\pm$ (2% of setting + 2 counts)			$\pm$ (5% of reading + 2 counts) at test volta	
rc Detection		Range:	0 - 9, 0 disabled			500 - 1000 V and 1000 - 9999 MΩ ± (8% of reading + 2 counts) at test volta	
round Fault nterrupt		GFI Trip Cu HV Shut Do	rrent: 450 µA max (AC or DC) own Speed: < 1ms			30 - 500 V and 1 - 1000 MΩ	
Current Display		Auto Range		Maximum Limit	Range:	0, 1 - 9999 MΩ (0=0FF)	
ourrone biopiaj	AC		0.000 - 3.500 mA		Resolution		
			: 0.001 mA		Accuracy.	Same as Resistance Display	
			3.00 - 20.00 mA	Minimum Limit	Range:	1 - 9999 MΩ	
	-	Resolution			Resolution	:1 MΩ	
	DC		0.0 μΑ - 350.0 μΑ		Accuracy:	Same as Resistance Display	
		Resolution Range 2:	0.300 mA - 3.500 mA				
			: 0.001 mA	Ramp Timer	Range:	Ramp-Up: 0.1 - 999.9 sec Ramp-Down: 1.0 - 999.9 sec (0=0FF)	
			3.00 mA - 7.50 mA		Resolution		
		Resolution				$\pm$ (0.1% of reading + 0.05 sec)	
		Accuracy:	All Ranges $\pm$ (2% of reading + 2 counts)				
DC Output Ripple		$\leq$ 5% Ripple RMS at 6 KV DC @ 7.5 mA, Resistive Load		Delay Timer	Range: Resolution		
Discharge Time		≤ 200 ms			Accuracy:	$\pm$ (0.1% of reading + 0.05 sec)	
		$\begin{array}{llllllllllllllllllllllllllllllllllll$		GFI Trip Current:	p Current: 450 μA max ut Down Speed: < 1 ms		
				HV Shut Down Speed			
C. Voltage Wave	form	Sine Wave	Crest Factor = 1.3 - 1.5				
				General Specifications			
Output Frequency		Range: 50 or 60 HZ, User Selectable		Mechanical	Bench or rack mount with tilt up feet.		
Output Voltage Regulation		$\pm$ (1% of output + 5 V) from no load to full load and over input voltage range.		Dimensions	(W x H x D) 8.46 x 3.5 x 14.57 in. (215 x 89 x 370 mm)		
Dwell Timer		Range: Accuracy:	AC 0, 0.3 - 999.9 sec (0 = Continuous) DC 0, 0.4 - 999.9 sec (0 = Continuous) $\pm$ (0.1% of reading + 0.05 sec)	Weight	20.96 lbs (9	96 lbs (9.53 kgs)	
				Interface	RS-232 inte	RS-232 interface standard for entry-level automation.	
Ramp Timer		Range:	Ramp-Up: 0.1 - 999.9 sec Ramp-Down: AC 0.0 - 999.9 sec	Memory	10 Memorie	es, 3 steps per memory.	
			DC 1.0 - 999.9 sec (0=0FF) $\pm$ (0.1% of reading + 0.05 sec)				

Specifications subject to change without notice.