

Our new Hypot<sup>®</sup> Series raises the bar for production line Hipot testing. Improve traceability with on-board data storage and easily transfer test result data and test settings via convenient front panel USB. Take the guesswork out of your production line with the direct barcode connection to quickly associate products with pre-programmed test files. We've included advanced features like improved security and a touch screen interface that provides custom pop-up prompts displayed before each test step. We've dramatically reduced the weight and footprint of the Hypot® Series to make safety compliance a less strenuous ordeal. Quickly interconnect with the HYAMP® Series to form a complete safety compliance system.



Find the Model that Fits Your Testing Needs



## SAFETY & PRODUCTIVITY FEATURES





SmartGFI® **Remote Safety** Interlock Automatic Easily disable operator shock HV output protection

Data Transfer Easily import/ export test files and data via USB







Multiple Barcode Capability Languages Direct barcode Multi-Language connection user interface

PLC Remote Basic PLC relay control





Advanced

protection



Prompt & Hold Provides alerts User Security & instructions Customize ID between tests

Interconnection Interconnect with HYAMP® to form & password a complete test system





Ramp-HI® Reduce ramp

Charge-LO® Confirms time during proper DUT DC Hipot connection

FailCHEK™ Confirms

failure detection





Accredited My Menu Cal Customize vour Accredited own shortcut calibration menu options available

On Board Data Storage

## Hypot<sup>®</sup> Series

INPUT SPECIFICATIONS					INSULATION RESISTANCE TEST MODE		
Voltage	100 – 120 VAC / 200 – 240 VAC ± 10% Auto Range				Voltage Setting	Range: Resolution:	30 – 1,000 VDC 1 V
Frequency	50/60 Hz ± 5%					Accuracy:	± (2% of setting + 5 V)
Fuse	3.15 A, Fast Blow 250 VAC				Resistance Display	Range: 1 – 50,000 MΩ	
DIELECTRIC WITHSTAND TEST MODE						Resolution: 30 – 99 VI	
Output Rating	3805/3865/3870 5 kVA @ 20 mAAC 6 kVA @ 7.5 mADC (3865/3870 only)					MΩ MΩ   0.001 1.000 - 1.9   0.01 2.00 - 199   0.1 20.0 - 199   1 200 - 10,0	292.00 - 19.9910.00 - 99.99.920.0 - 199.9100.0 - 999.9
Maximum Limit	3805/3865/3870	AC	Range: Resolution:	0.00 – 20.00 mA 0.01 mA		Accuracy:	± (8% of reading+2 counts) at test voltage
		DC	Range: Resolution: Accuracy:	0 – 7500 μA 1 μA AC and DC ± (2% of setting + 2 counts)			30 – 499 V and 1.00–999.9 MΩ 500-1000 V g + 2 counts) for 1.00 – 999.9 MΩ g + 2 counts) for 1000 – 999.9 MΩ
Minimum Limit	3805/3865/3870	AC	Range: Resolution:	0.000 – 9.999 mA 0.001 mA	HI & LO-Limit	± (15% of reading + 2 counts) for 10000 – 50,000 MΩ Range: 0, 1.00 – 99.99 MΩ (0=OFF, HI-Limit ONLY)	
		DC	Range: Resolution: Accuracy:	0.0 – 999.9 μA 0.1μA AC and DC ± (2% of setting		Resolution:	0.01 ΜΩ 1000-50000 1 ΜΩ
Arc Detection	Range:	1-9 ON/C	OFF Select	+ 2 counts)		Range: Resolution:	100.0 – 999.9 ΜΩ 0.1 ΜΩ
Ground Fault	GFI Trip Current: 450 μA max (AC or DC), Fixed					Accuracy:	At test voltage 500-1000 V ± (2% of setting + 2 counts) for 1.00 – 999.9 MΩ
Interrupt	HV Shut Down Speed: < 1 msec						$\pm$ (5% of setting + 2 counts) for 1000 – 9999 MΩ ± (15% of setting + 2 counts) for 10000 – 50,000 MΩ
Current Display	3805/3865/3870	AC	Range 1: Range 2:	0.000 – 4.000 mA 3.50 – 20.00 mA	Charge-LO	Range:	0.000 – 3.500 µA DC or Auto Set
		DC Range 1: Range 2:	0.0 μA – 400.0 μA 0.350 mA – 4.000 mA 3.50 mA – 7.50 mA	Ramp Timer	Range:	Ramp-Up: 0.1 – 999.9 sec Ramp-Down: 0, 1.0 – 999.9 sec, (0=OFF)	
		Range 3:		Delay Timer	Range:	0.5 – 999.9 sec (0=OFF)	
		Accuracy: All Ranges ± (2% of reading + 2 counts)			Dwell Timer	Range:	0, 0.5 – 999.9 sec (0=continuous)
DC Output Ripple	$\leq$ 5% Ripple rms at 6 kVDC @ 7.5 mA Resistive Load				GENERAL SPECIFICATIONS		
RAMP-HI Selectable	Range: 0.0 – 7,500 µA, User Selectable				Remote Control and Signal I/O	Inputs: Test, Reset, Hardware Interlock, File Recall Outputs: Pass, Fail, Test-in-Process, Reset-Out, Start-Out	
Charge-LO	$0$ – 350 $\mu A$ DC or Auto Set				Vmax	Displays the maximum voltage value recorded during a breakdown	
Discharge Time	$ \begin{array}{ll} < 50 \mbox{ msec for no load, } < 100 \mbox{ msec for capacitive load} \\ \hline \mbox{The maximum capacitive load vs. output voltage:} \\ 1\mu F < 1KV & 0.08\mu F < 4KV \\ 0.75\mu F < 2KV & 0.04\mu F < 5KV \\ 0.5\mu F < 3KV & 0.015\mu F < 6KV \\ \end{array} $				lmax	Displays the maximum leakage current value read during a test	
					Memories	50 steps 1500 test results	
AC Voltage	Sine Wave, Crest Factor = 1.3 – 1.5				Interface	USB standard	
Waveform/ Frequency	Range:	Range: 50 or 60 Hz, User Selectable				English, Traditional Chinese, Simplified Chinese, Turkish, Portuguese, Spanish, German, French	
Dwell Timer	Range:	AC 0, 0.2-999.9 sec (0=Continuous) DC 0, 0.4-999.9 sec (0=Continuous)			Security		ps with ID and password
Ramp Timer	Range:	Range: Ramp-Up: 0.1 – 999.9 sec Ramp-Down: AC 0.0 – 999.9 sec DC 0, 1.0 – 999.9 sec, (0=OFF)			Dimensions (W x H x D)	3805/3865/3870:	8.5" x 3.5" x 11.9" (215 mm x 88.1 mm x 300 mm)
Ground Continuity Current	DC 0.1A ± 0.01 A, fixed				Weight	3805/3865/3870:	12 lbs (5.46 kgs)
Ground Continuity Maximum Limit Minimum Limit	Range: $0.00 - 1.50 \Omega$ Resolution: $0.01 \Omega$ Accuracy: $\pm$ (3% of setting + 0.02 $\Omega$ )				Why We Use Counts Associated Research publishes some specifications using "counts" which allows us to provide a better indication of the instrument's capabilities across measurement ranges. A count refers to the lowest resolution of the display for a given measurement range. For example, if the		
Ground Continuity Auto Offset	Range: Resolution: Accuracy:	0.00 – 0.50 0.01 Ω ± (3% of s	i0 Ω setting + 0.02	Ω)	resolution for voltage is 1V then 2 counts = 2 V. Specifications subject to change without notice.		