

Our Hypot® Series raises the bar for production line Hipot testing. Improve traceability with onboard 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® Automatic operator shock protection

Remote Safet Interlock Easily disable HV output

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







Multiple Languages Multi-Language user interface



PLC Remote Basic PLC relay control



Prompt & Hold Provides alerts & instructions between tests



Advanced User Security Customize ID & password protection



Interconnection Interconnect with HYAMP® to form a complete test system



Ramp-HI® Reduce ramp time during DC Hipot



Charge-LO® Fail
Confirms Conproper DUT
connection de



FailCHEK™
Confirms
failure
detection



Accredited Cal Accredited calibration options



WithStand® Automation Software



On Board Data Storage Save up to 1,500 Test Results on-board

INPUT SPECIFICATIONS					
Voltage	100 – 120 VAC / 20	100 – 120 VAC / 200 – 240 VAC ± 10% Auto Range			
Frequency	50/60 Hz ± 5%				
Fuse	3.15 A, Fast Blow 250 VAC				
DIELECTRIC WITHSTAND TEST MODE					
Output Rating	3805/3855/ 3865/3870	5 kVA @ 20 mAAC 6 kVA @ 7.5 mADC (3865/3870 only)			
Maximum Limit	3805/3855/ 3865/3870	AC	Range: Resolution:	0.00 – 20.00 mA 0.01 mA	
		DC	Range: Resolution: Accuracy:	$0-7500~\mu A$ 1 μA AC and DC \pm (2% of setting $+$ 2 counts)	
Minimum Limit	3805/3855/ 3865/3870	AC	Range: Resolution:	0.000 – 9.999 mA 0.001 mA	
		DC	Range: Resolution: Accuracy:	$0.0 - 999.9 \mu A$ $0.1 \mu A$ AC and DC \pm (2% of setting $+$ 2 counts)	
Arc Detection	Range:	1 – 9 (9 is most sensitive)			
Ground Fault Interrupt	GFI Trip Current: 4	GFI Trip Current: 450 μA max (AC or DC), Fixed			
шенире	HV Shut Down Speed: < 1 msec				
Current Display	3805/3855/ 3865/3870	AC	Range 1: Range 2:	0.000 – 4.000 mA 3.50 – 20.00 mA	
		DC	Range 1: Range 2: Range 3:	0.0 μA – 400.0 μA 0.350 mA – 4.000 mA 3.50 mA – 7.50 mA	
			Accuracy:	All Ranges ± (2% of reading + 2 counts)	
DC Output Ripple	\leq 5% Ripple rms at 6 kVDC @ 7.5 mA Resistive Load				
RAMP-HI Selectable	Range: 0.0 – 7,500 μA, User Selectable				
Charge-LO	$0-350~\mu\text{A}$ DC or Auto Set				
Discharge Time	<50 msec for no load, <100 msec for capacitive load The maximum capacitive load vs. output voltage: $1\mu\text{F} < 1\text{KV}$				
AC Voltage Waveform/	Sine Wave, Crest Factor = 1.3 – 1.5				
Frequency	Range:	50 or 60 Hz, User Selectable			
Dwell Timer	Range:	AC 0, 0.2-999.9 sec (0=Continuous) DC 0, 0.4-999.9 sec (0=Continuous)			
Ramp Timer	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)			
Ground Continuity Current	DC $0.1A \pm 0.01$ A, fixed				
Ground Continuity Maximum Limit Minimum Limit	Range: Resolution: Accuracy:	$0.00 - 1.50 \Omega$ 0.01Ω $\pm (3\% \text{ of setting} + 0.02 \Omega)$			
Ground Continuity Auto Offset	Range: Resolution: Accuracy:	0.00 – 0 0.01 Ω ± (3% o	.50 Ω f setting + 0.02	Ω)	

Voltage Setting	Range: Resolution:	30 – 1,000 VDC 1 V			
	Accuracy:	± (2% of setting + 5 V)			
Resistance Display	Range:	1 – 50,000 ΜΩ			
	$\begin{tabular}{lll} Resolution: & 30 - 99 \ VI \\ M\Omega & M\Omega \\ 0.001 & 1.000 - 1.9 \\ 0.01 & 2.00 - 19.9 \\ 0.1 & 200 - 10.0 \\ \end{tabular}$	$\begin{array}{cccc} & M\Omega & M\Omega \\ P99 & 1.000 - 1.999 & 1.000 - 9.999 \\ P9 & 2.00 - 19.99 & 10.00 - 99.99 \\ P9 & 20.0 - 199.9 & 100.0 - 999.9 \\ \end{array}$			
	Accuracy:	\pm (8% of reading+2 counts) at test voltage 30 – 499 V and 1.00–999.9 $M\Omega$			
	At test voltage 500-1000 V \pm (2% of reading + 2 counts) for 1.00 – 999.9 M Ω \pm (5% of reading + 2 counts) for 1000 – 9999 M Ω \pm (15% of reading + 2 counts) for 10000 – 50,000 M Ω				
HI & LO-Limit	Range: Resolution:	0, 1.00 – 99.99 M Ω (0=OFF, HI-Limit ONLY) 0.01 M Ω 1000-50000 1 M Ω			
	Range: Resolution:	100.0 – 999.9 MΩ 0.1 MΩ			
	Accuracy:	At test voltage 500-1000 V \pm (2% of setting + 2 counts) for 1.00 – 999.9 Ms \pm (5% of setting + 2 counts) for 1000 – 9999 Ms \pm (15% of setting + 2 counts) for 10000 – 50,000 M Ω			
Charge-LO	Range:	0.000 – 3.500 μA DC or Auto Set			
Ramp Timer	Range:	Ramp-Up: 0.1 – 999.9 sec Ramp-Down: 0, 1.0 – 999.9 sec, (0=OFF)			
Delay Timer	Range:	0.5 – 999.9 sec (0=OFF)			
Dwell Timer	Range:	0, 0.5 – 999.9 sec (0=continuous)			
GENERAL SPECIFIC	ATIONS				
Remote Control and Signal I/O	Inputs: Test, Reset, Hardware Interlock, File Recall Outputs: Pass, Fail, Test-in-Process, Reset-Out, Start-Out				
Vmax	Displays the maximum voltage value recorded during a breakdown				
max	Displays the maximum leakage current value read during a test				
Memories	50 steps 1500 test results				
nterface	USB standard				
Language	English, Traditional Chinese, Simplified Chinese, Turkish, Portuguese, Spanish, German, French				
Security	Multiple user setu	Multiple user setups with ID and password			
Dimensions (W x H x D)	3805/3855/ 3865/3870				
Weight	3805/3855/ 3865/3870				

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 resolution for voltage is 1V then 2 counts = 2 V.

3865/3870

 ${\bf Specifications\ subject\ to\ change\ without\ notice.}$

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