

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

Interlock
Easily disable
HV output

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







Barcode Capability Direct barcode connection

Languages
MultiLanguage user interface

PLC Remote Basic PLC relay control



Prompt & Hold Provides alerts & instructions





d Us

Advanced User Security Customize ID & password protection

ced Interconnection
curity Interconnect with
ize ID HYAMP® to form
word a complete test
system







Ramp-HI® Reduce ramp time during DC Hipot

Charge-LO®
Confirms
proper DUT

FailCHEKTM Confirms failure



available

Accredited
Cal

Accredited
calibration



Automation

On Board Data Storage Save up to 1,500 Test Results onboard

INPUT SPECIFICATIONS					INSULATION RESISTANCE TEST MODE			
Voltage	100 – 120 VAC / 200 – 240 VAC ± 10% Auto Range				Voltage Setting	Range:	30 – 1,000 VDC	
Frequency	50/60 Hz ± 5%	50/60 Hz ± 5%				Resolution: Accuracy:	$1 V$ $\pm (1.5\% \text{ of setting} + 5 V)$	
Fuse	3.15 A, Fast Blow 2	3.15 A, Fast Blow 250 VAC				Range:	1 – 50,000 ΜΩ	
DIELECTRIC WIT	HSTAND TEST MODE					Resolution: 30 – 99 V	MΩ MΩ .999 1.000 – 1.999 1.000 – 9.999 99 2.00 – 19.99 10.00 – 99.99 9.9 20.0 – 199.9 100.0 – 999.9	
Output Rating	3805/3855/ 5 kVA @ 20 mAAC 3865/3870 6 kVA @ 7.5 mADC (3865/3870 only) 3805/3855/ AC Range: 0.00 – 20.00 mA					MΩ MΩ 0.001 1.000 – 1. 0.01 2.00 – 19. 0.1 20.0 – 199. 1 200 – 10,0		
Maximum Limit	3805/3855/ 3865/3870		Range: solution:	0.00 - 20.00 mA 0.01 mA $0 - 7500 \mu\text{A}$ $1 \mu\text{A}$ AC and DC ± (2% of setting + 2 counts)		Accuracy:	\pm (8% of reading+2 counts) at test voltage 30 – 499 V and 1.00–999.9 MΩ	
		Res	Range: solution: accuracy:			± (2% of readir ± (5% of readir	voltage 500-1000 V of reading + 2 counts) for 1.00 – 999.9 M Ω of reading + 2 counts) for 1000 – 9999 M Ω of reading + 2 counts) for 10000 – 50,000 M Ω	
Minimum Limit	3805/3855/ 3865/3870	AC Re:	Range: solution:	0.000 – 9.999 mA 0.001 mA	HI & LO-Limit	± (15% of read Range:	ing + 2 counts) for 10000 – 50,000 MΩ 0, 1.00 – 99.99 MΩ (0=OFF, HI-Limit ONLY)	
		DC Re:	Range: Resolution: Accuracy:	0.0 – 999.9 µA 0.1µA AC and DC ± (2% of setting + 2 counts)		Resolution:	0,01 MΩ 1000-50000 1 MΩ	
						Range: Resolution:	100.0 – 999.9 MΩ 0.1 MΩ	
Arc Detection	Range:	1 – 9 (9 is m				Accuracy:	At test voltage 500-1000 V ± (2% of setting + 2 counts) for 1.00 – 999.9	
Ground Fault Interrupt	GFI Trip Current: 450 µA max (AC or DC), Fixed						MΩ ± (5% of setting + 2 counts) for 1000 – 9999	
	HV Shut Down Speed: < 1 msec 3805/3855/ AC Range 1: 0.000 – 4.000 mA						MΩ ± (15% of setting + 2 counts) for 10000 –	
Current Display	3805/3855/ 3865/3870		Range 2:	3.50 – 20.00 mA 0.0 μA – 400.0 μA 0.350 mA – 4.000 mA 3.50 mA – 7.50 mA	Charge-LO	Range:	50,000 MΩ 0.000 – 3.500 μA DC or Auto Set	
			DC Range 1: Range 2: Range 3:		Ramp Timer	Range:	Ramp-Up: 0.1 – 999.9 sec Ramp-Down: 0, 1.0 – 999.9 sec, (0=OFF)	
		Accuracy:		All Ranges ± (2% of read-	Delay Timer	Range:	0.5 – 999.9 sec (0=OFF)	
B00 : .B. I	50/ D: - I			ing + 2 counts)	Dwell Timer	Range:	0, 0.5 – 999.9 sec (0=continuous)	
DC Output Ripple	≤ 5% Ripple rms at 6 kVDC @ 7.5 mA Resistive Load				GENERAL SPECIFICA	ATIONS		
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 μA DC or Auto Set				Vmax	Displays the maximum voltage value recorded during		
Discharge Time	< 50 msec for no load, < 100 msec for capacitive load The maximum capacitive load vs. output voltage: $1\mu F < 1KV \qquad 0.08\mu F < 4KV \\ 0.75\mu F < 2KV \qquad 0.04\mu F < 5KV \\ 0.5\mu F < 3KV \qquad 0.015\mu F < 6KV$				lmax	a breakdown Displays the maximum leakage current value read during a test		
					Memories	50 steps 1500 test results		
AC Voltage Waveform/	Sine Wave, Crest Factor = 1.3 – 1.5				Interface	USB standard		
Frequency	Range:	50 or 60 Hz, User Selectable			Language	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	Multiple user setups with ID and password		
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)			Dimensions (W x H x D)	3805/3855/ 3865/3870	8.5" x 3.5" x 11.9" (215 mm x 88.1 mm x 300 mm)	
Ground Continui- ty Current	DC 0.1A ± 0.01 A, fixed				Weight	3805/3855/ 3865/3870	12 lbs (5.46 kgs)	
Ground Conti- nuity Maximum Limit Minimum Limit	Range: $0.00-1.50~\Omega$ Resolution: $0.01~\Omega$ Accuracy: \pm (3% of setting \pm 0.02 Ω)				For reading specifications, please refer to the user manual. 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.			
Ground Conti- nuity Auto Offset	Range: $0.00 - 0.50 \Omega$ Resolution: 0.01Ω Accuracy: $\pm (3\% \text{ of setting} + 0.02 \Omega)$							

Specifications subject to change without notice.

Call **+60-3-78429168**