

Hypot®

Production Line Hipot Testing
at its Finest



Our new Hypot® 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



AC Hipot



DC Hipot



Ground
Continuity



Insulation
Resistance

EN 50191
COMPLIANT

NEW 2017	3805	•		•	
NEW 2017	3865	•	•	•	•
NEW 2017	3870	•	•	•	•
NEW 2017	3880*	500 VA*	•		

*Meets 200 mA short circuit requirements

AVAILABLE INTERFACES



USB

SAFETY & PRODUCTIVITY FEATURES



SmartGFI®
Automatic
operator shock
protection



**Remote Safety
Interlock**
Easily disable
HV output



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



**Barcode
Capability**
Direct barcode
connection



**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®
Confirms
proper DUT
connection



FailCHEK™
Confirms
failure
detection



**Accredited
Cal**
Accredited
calibration
options
available



My Menu
Customize your
own shortcut
menu



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

INPUT SPECIFICATIONS				
Voltage	100 – 120 VAC / 200 – 240 VAC ± 10% Auto Range			
Frequency	50/60 Hz ± 5%			
Fuse	3.15 A, Fast Blow 250 VAC 15 A, Fast Blow 250 VAC (3880 only)			
DIELECTRIC WITHSTAND TEST MODE				
Output Rating	3805/3865/3870	5 kVA @ 20 mAAC 6 kVA @ 7.5 mADC (3865/3870 only)		
	3880	5 kVA @ 100mAAC		
Maximum Limit	3805/3865/3870	AC	Range: Resolution:	0.00 – 20.00 mA 0.01 mA
		DC	Range: Resolution: Accuracy:	0 – 7500 µA 1 µA AC and DC ± (2% of setting + 2 counts)
	3880	AC	Range: Resolution: Accuracy:	0.00 – 99.99 mA 0.01 mA ± (2% of setting + 6 counts)
Minimum Limit	3805/3865/3870	AC	Range: Resolution:	0.000 – 9.999 mA 0.001 mA
		DC	Range: Resolution: Accuracy:	0.0 – 999.9 µA 0.1µA AC and DC ± (2% of setting + 2 counts)
	3880	AC	Range: Resolution: Accuracy:	0.000 – 9.999 mA 0.001 mA ± (2% of setting + 6 counts)
Arc Detection	Range:	1-9, ON/OFF Select		
Ground Fault Interrupt	GFI Trip Current: 450 µA max (AC or DC), Fixed			
	HV Shut Down Speed: < 1 msec			
Current Display	3805/3865/3870	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)
	3880	AC	Range 1: Accuracy: Range 2: Accuracy:	0.000 – 4.000 mA ± (2% of reading + 2 counts) 3.50 – 99.99 mA ± (2% of reading + 6 counts)
DC Output Ripple	≤ 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 µA DC or Auto Set			
Discharge Time	< 50 msec for no load, < 100 msec for capacitive load The maximum capacitive load vs. output voltage: 1µF < 1KV 0.08µF < 4KV 0.75µF < 2KV 0.04µF < 5KV 0.5µF < 3KV 0.015uF < 6KV			
AC Voltage Waveform/ Frequency	Sine Wave, Crest Factor = 1.3 – 1.5			
	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 ± 0.01 A, fixed			

DIELECTRIC WITHSTAND TEST MODE CONTINUED				
Ground Continuity Maximum Limit Minimum Limit	Range:	0.00 – 1.50 Ω		
	Resolution:	0.01 Ω		
	Accuracy:	± (3% of setting + 0.02 Ω)		
Ground Continuity Auto Offset	Range:	0.00 – 0.50 Ω		
	Resolution:	0.01 Ω		
	Accuracy:	± (3% of setting + 0.02 Ω)		
Short Circuit Current	> 200 mA (3880 only)			
INSULATION RESISTANCE TEST MODE				
Voltage Setting	Range: Resolution: Accuracy:	30 – 1,000 VDC 1 V ± (2% of setting + 5 V)		
Resistance Display	Range:	1 – 50,000 MΩ		
	Resolution:	30 – 99 VDC 100 – 499 VDC 500 – 1000 VDC MΩ		

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.

Specifications subject to change without notice.