

# HypotMAX®

The Safest and Most Reliable Automated High Voltage Hipot Instrument Available



Our HypotMAX® Series is a complete line of automated Hipot instruments designed to meet the demanding requirements of high voltage applications. We've included our patented SmartGFI® feature for maximum operator safety as well as a variety of advanced features to increase productivity on the production line and in the lab. Set up and run tests with confidence from our intuitive user interface or automate with a PC.



## Find the Model that Fits Your Testing Needs



AC Hipot



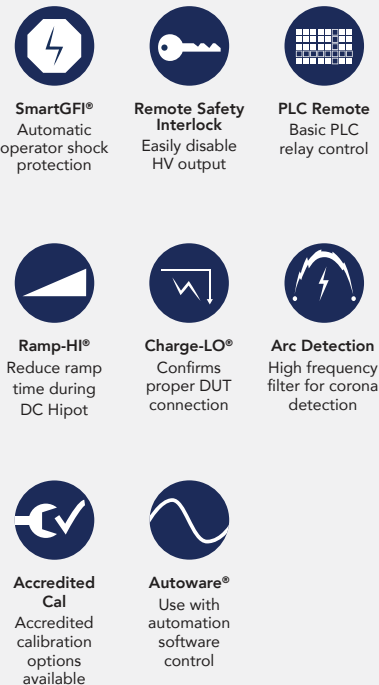
DC Hipot

Model	AC Hipot	DC Hipot
7705	•	
7710		•
7715	•	
7720		•

## AVAILABLE INTERFACES



## SAFETY & PRODUCTIVITY FEATURES



INPUT SPECIFICATIONS		
Voltage	115/130 VAC ± 10%, Single Phase, User Selection	
Frequency	50/60 Hz ± 5%	
Fuse	6.3 A, 250 V Slow Blow	
DIELECTRIC WITHSTAND TEST MODE		
Output Rating	7705: 10 kV @ 20 mAAC 7710: 12 kV @ 10 mADC 7715: 20 kV @ 10 mAAC 7720: 20 kV @ 5 mADC	
HI-Limit and LO-Limit	7705	Range 1: 0.0 – 9,999 mA Resolution: 0.001 mA Range 2: 10.00 – 20.00 mA Resolution: 0.01 mA
	7710	Range 1: 0.00 – 999.9 µA Resolution: 0.1 µA Range 2: 1,000 – 9,999 µA Resolution: 1 µA
	7715	Range: 0.00 – 9,999 mA Resolution: 0.001 mA
	7720	Range 1: 0.0 – 999.9 µA Resolution: 0.1 µA Range 2: 1,000 – 5,000 µA Resolution: 1 µA/step
	77XX	Accuracy: ± (2% of setting + 2 counts)
DC Ramp HI	7710	13 mA peak maximum, 10 mADC, ON/OFF selectable
	7720	6.75 mA peak maximum, 5 mADC, ON/OFF selectable
DC Charge LO	7710/7720	Range: 0.0 – 350 µADC or auto set
Arc Detection	7705	1 – 9 at output voltage < 7.00 kV 1 – 8 at output voltage ≥ 7.00 kV
	7710/7720	1 – 9
	7715	1 – 9 at output voltage < 15.00 kV 1 – 7 at output voltage ≥ 15.00 kV
Voltage Display	7705	Range: 0.00 – 10.00 kV Full scale Accuracy: ± (2% of reading + 20 V)
	7710	Range: 0.00 – 12.00 kV Full scale Accuracy: ± (2% of reading + 20 V)
	7715/7720	Range: 0.00 – 20.00 kV Full scale Accuracy: ± (2% of reading + 20 V)
Current Display	7705	Auto Range Range 1: 0.000 – 3.500 mA Range 2: 3.00 – 20.00 mA
	7710	Auto Range Range 1: 0.0 – 350.0 µA Range 2: 300 – 3500 µA Range 3: 3,000 – 9,999 µA
	7715	Auto Range Range 1: 0.000 – 3.500 mA Range 2: 3.00 – 10.00 mA
	7720	Auto Range Range 1: 0.0 – 350.0 µA Range 2: 300 – 5,000 µA
DC Output Ripple	7710	< 5% Ripple at 12 kV @ 9,999 µA, Resistive Load
	7720	< 5% Ripple at 20 kV @ 4,999 µA, Resistive Load
AC Output Waveform	Sine Wave, Crest Factor = 1.3 – 1.5	
Output Frequency	Range:	50/60 Hz, User Selection ± (1% of output + 5 V) from Regulation No load to full load
Output Regulation	± (1% of output + 10 V) from no load to full load	
Discharge Timer	7710	No load < 400 ms
	7720	No load < 500 ms
Dwell Timer		Range: 0, 0.3 – 999.9 sec (0=Continuous)
		AC Range: 0, 0.3 – 999.9 sec or min (0=Continuous)
		DC Range: 0, 0.4 – 999.9 sec or min (0=Continuous)
Ramp Timer	7705/7715	Range: 0.3 – 999.9 sec
	7710/7720	Range: 0.4 – 999.9 sec
Ground Continuity	Max. Ground Resistance 1 Ω ± 0.1 Ω, fixed	

DIELECTRIC WITHSTAND TEST MODE	
Ground Fault Interrupt	HV Shut Down Speed < 1 ms GFI Trip Current 1 mA max
GENERAL SPECIFICATIONS	
Memory	50 memories w/ 8 steps per memory
Mechanical	Tilt-up front feet
Interface	Standard: USB, RS-232 Optional: GPIB
Dimensions (W x H x D)	16.93" x 5.24" x 15.75" (430 x 133 x 400 mm)
Weight	7705/7710: 61.65 lbs (28 kg)
	7710/7720: 48.9 lbs (22 kg)

**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.