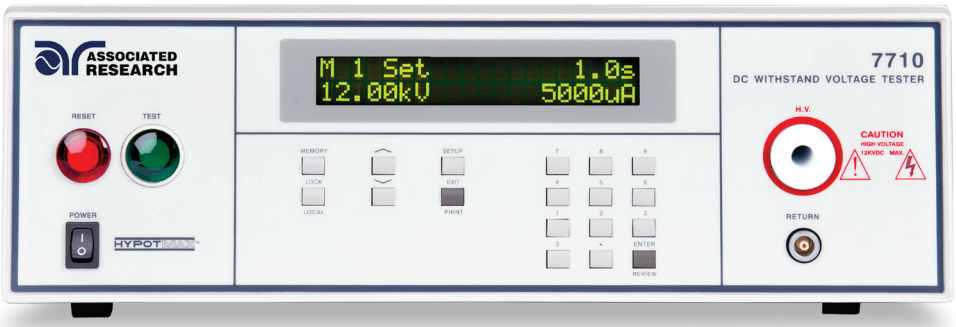
HypotMAX®

THE SAFEST AND MOST RELIABLE AUTOMATED HIGH VOLTAGE HIPOT INSTRUMENTS AVAILABLE

3 year Warranty

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.



AVAILABLE INTERFACES

- **USB**
- **RS-232**
- **GPIB** (Optional)

SAFETY & PRODUCTIVITY FEATURES

- **Smart GFI®** Automatic operator shock protection
- **Remote Safety Interlock** Easily disable HV output
- **PLC Remote** Basic PLC relay control
- **Ramp-HI®** Reduce ramp time during DC Hipot
- **Charge-LO®** Confirms proper DUT connection
- **Arc Detection** High frequency filter for corona detection
- **Accredited Cal** Accredited calibration options available
- **Autoware®** Use with automation software control

Find the Right Model that Fits Your Testing Needs

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

INPUT SPECIFICATIONS

Voltage	7705/ 7715/ 7710/ 7720	115/230 VAC ± 10%, single phase, user selection
Frequency	7705/	50/60 Hz ± 5%
Fuse	7710/ 7715/ 7720	6.3 Amp, 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/step
		Range 2:	10.00 - 20.00 mA
		Resolution:	0.01 mA
	7710	Range 1:	0.000 - 999.9 µA
		Resolution:	0.1 µA/step
		Range 2:	1000 - 9999 µA
		Resolution:	1 µA
	7715	Range:	0.00 - 9.999 mA
		Resolution:	0.001 mA/step
	7720	Range 1:	0.0 – 999.9 µA
		Resolution:	0.1 µA/step
		Range 2:	1000 – 5000 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	7710/ 7720/ 7705	1 - 9 at output voltage < 7.00 kV 1 - 8 at output voltage ≥ 7.00 kV	
	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	Range:	0.00 - 20.00 kV Full scale
		Accuracy:	± (2% of reading + 20 V)
	7720	Range:	0.00 - 20.00 kV Full scale
		Accuracy:	± (2% of reading + 20 V)
Current Display	7705	Auto Range	
		Range 1:	0.000 mA - 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:	3000 mA - 9999 µA
	7715	Auto Range	
		Range 1:	0.000 mA - 3.500 mA
		Range 2:	3.00 - 10.00 mA
	7720	Auto Range	
		Range 1:	0.0 - 350.0 µA
		Range 2:	300 - 5000 µA

DIELECTRIC WITHSTAND TEST MODE (CONTINUED)

DC Output Ripple	7710	< 5% Ripple at 12 kV @ 9999 µA, Resistive Load
	7720	< 5% Ripple at 20 kV @ 4999 µA, Resistive Load
AC Output Waveform	Sine Wave, Crest Factor = 1.3 - 1.5	
AC Output	7705/ 7710	± (1% of setting + 10 V) from no load to full load
Regulation	7715/ 7720	
Output Frequency	Range:	50/60 Hz, user selection
		± (1% of output + 5 V) from Regulation no load to full load
Output Regulation	7705/ 7710/ 7715/ 7720	± (1% of output + 10 V) from no load to full load
Discharge Time	7710	No load < 400 ms
	7720	No load < 500 ms
Dwell Timer	7700	Range: 0, 0.3 - 999.9 sec (0 = Continuous)
	7705/7710/7715/7720	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	
Ground Fault Interrupt	7705/7715	HV Shut Down Speed: < 1 ms
	7710/ 7720	GFI Trip Current: 1 mA max

General Specifications

Mechanical	7705/7715	Tilt up front feet
Dimensions (W x H x D)	7710/ 7720	16.93 x 5.24 x 15.75 in. (430 x 133 x 400 mm)
Weight	7705/7710	61.65 lbs (28 kg)
	7715/7720	48.9 lbs (22 kg)
Interface	7705/7710	Standard: USB/RS-232
	7715/7720	Optional: GPIB
Memory		50 memories w/ 8 Steps per memory

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=2V.

Specifications subject to change without notice.