HypotMAX®

The Safest and Most Reliable Automated High Voltage Hipot Instrument Available
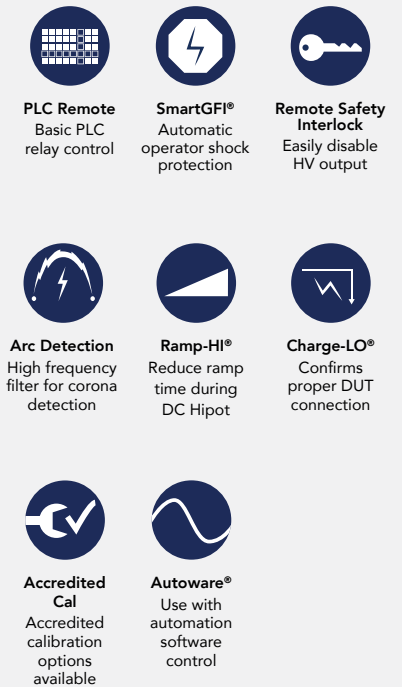
CE | TÜV Rheinland | RoHS 2 COMPLIANT 2011/65/EU

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.
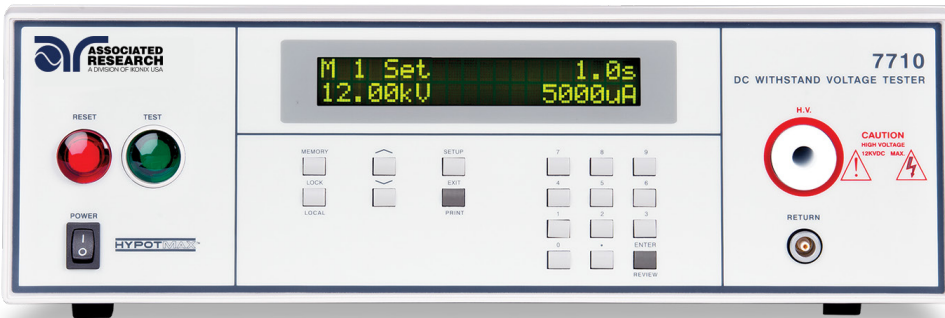
AVAILABLE INTERFACES

USB | RS-232 | GPIB (Optional)

SAFETY & PRODUCTIVITY FEATURES

PLC Remote
Basic PLC relay control

SmartGFI®
Automatic operator shock protection

Remote Safety Interlock
Easily disable HV output

Arc Detection
High frequency filter for corona detection

Ramp-HI®
Reduce ramp time during DC Hipot

Charge-LO®
Confirms proper DUT connection

Accredited Cal
Accredited calibration options available

Autoware®
Use with automation software control

ASSOCIATED RESEARCH
A DIVISION OF IKONIX USA

M.1 Set   1.0s
12.00kV   5000uA

7710
DC WITHSTAND VOLTAGE TESTER

H.V.

CAUTION
HIGH VOLTAGE
12KVDC MAX

RETURN

RESET   TEST

POWER

HYPOTMAX

Find the Model that Fits Your Testing Needs

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

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 uA
		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.