

# HypotMAX<sup>®</sup>

THE SAFEST AND MOST RELIABLE AUTOMATED HIGH VOLTAGE HIPOT INSTRUMENTS AVAILABLE

SCAN FOR QUICK START VIDEO



Our HypotMAX<sup>®</sup> 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

## SAFETY & PRODUCTIVITY FEATURES



SmartGFI<sup>®</sup>



Remote Safety Interlock



PLC Remote

Automatic operator shock protection

Easily disable HV output

Basic PLC relay control



Ramp-HI<sup>®</sup>



Charge-LO<sup>®</sup>



Arc Detection

Reduce ramp time during DC Hipot

Confirms proper DUT connection

High frequency filter for corona detection



Accredited Cal



Autaware

Accredited calibration options available

Use with automation software control

## Find the Right Model that Fits Your Testing Needs



AC Hipot



DC Hipot

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

## INPUT SPECIFICATIONS

Voltage	7705/ 7715/ 7710/ 7720	115/230 VAC ± 10%, single phase, user selection
Frequency	50/60 Hz ± 5%	
Fuse	7705/ 7710/ 7715/ 7720	6.3 Amp, 250 V Slow Blow

## DIELECTRIC WITHSTAND TEST MODE

Output Rating	7705 7710 7715 7720	10 kV @ 20 mAAC 12 kV @ 10 mADC 20 kV @ 10 mAAC 20 kV @ 5 mADC
HI-Limit and LO-Limit	7705	Range 1: 0.0 - 9999 mA Resolution: 0.001 mA/step Range 2: 10.00 - 20.00 mA Resolution: 0.01 mA
	7710	Range 1: 0.000 - 999.9 $\mu$ A Resolution: 0.1 $\mu$ A/step Range 2: 1000 - 9999 $\mu$ A Resolution: 1 $\mu$ A
	7715	Range: 0.00 - 9.999 mA Resolution: 0.001 mA/step
	7720	Range 1: 0.0 - 999.9 $\mu$ A Resolution: 0.1 $\mu$ A/step Range 2: 1000 - 5000 $\mu$ A Resolution: 1 $\mu$ A/step
DC Ramp HI	77XX 7710	Accuracy: ± (2% of setting + 2 counts) 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 $\mu$ ADC or auto set
Arc Detection	7710/ 7720/ 7705	1-9
	7715	1 - 9 at output voltage < 7.00 kV 1 - 8 at output voltage ≥ 7.00 kV 1 - 9 at output voltage < 15.00 kV 1 - 7 at output voltage ≥ 15.00 kV
Voltage Display	7705 7710 7715 7720	Range: 0.00 - 10.00 kV Full scale Accuracy: ± (2% of reading + 20 V) Range: 0.00 - 12.00 kV Full scale Accuracy: ± (2% of reading + 20 V) Range: 0.00 - 20.00 kV Full scale Accuracy: ± (2% of reading + 20 V) Range: 0.00 - 20.00 kV Full scale Accuracy: ± (2% of reading + 20 V)
Current Display	7705 7710 7715 7720	Auto Range Range 1: 0.000 mA - 3.500 mA Range 2: 3.00 - 20.00 mA Auto Range Range 1: 0.0 - 350.0 $\mu$ A Range 2: 300 - 3500 $\mu$ A Range 3: 3000 mA - 9999 $\mu$ A Auto Range Range 1: 0.000 mA - 3.500 mA Range 2: 3.00 - 10.00 mA Auto Range Range 1: 0.0 - 350.0 $\mu$ A Range 2: 300 - 5000 $\mu$ A

## DIELECTRIC WITHSTAND TEST MODE (CONTINUED)

DC Output Ripple	7710 7720	< 5% Ripple at 12 kV @ 9999 $\mu$ A, Resistive Load < 5% Ripple at 20 kV @ 4999 $\mu$ A, Resistive Load
AC Output Waveform	7705/ 7710	Sine Wave, Crest Factor = 1.3 - 1.5 ± (1% of setting + 10 V) from no load to full load
Regulation	7715/ 7720	Range: 60 or 50 Hz, user selection ± (1% of output + 5 V) from Regulation no load to full load
Output Frequency		± (1% of output + 10 V) from 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 7720	No load < 400 ms No load < 500 ms
Dwell Timer	7700 7705/7710/7715/7720	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 7710/7720	Range: 0.3 - 999.9 sec Range: 0.4 - 999.9 sec
Ground Continuity		Max. Ground Resistance: 1 $\Omega$ ± 0.1 $\Omega$ , fixed
Ground Fault Interrupt	7705/7715 7710/7720	HV Shut Down Speed: < 1 ms GFI Trip Current: 1 mA max
<b>General Specifications</b>		
Mechanical Dimensions	7705/7715 7710/7720	Tilt up front feet (WxHxD) 16.93 x 5.24 x 15.75 in. (430 x 133 x 400 mm)
Weight	7705/7710 7715/7720	61.65 lbs (28 kg) 48.9 lbs (22 kg)
Interface Memory	7705/7710 7715/7720	Standard USB/RS-232, Optional GPIB 50 memories w/8 Steps per memory 50 memories

## Why We Use Counts

Associated Research publishes some specifications using "counts" which allows us to provide a better indication of the tester'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.