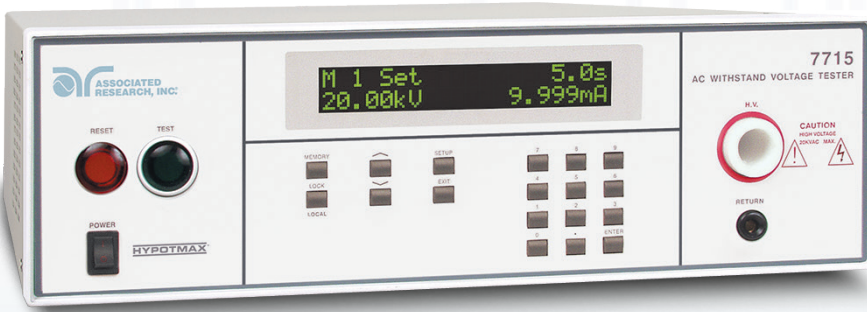


HYPOTMAX®

The safest and most reliable automated high voltage and high current Hipot instruments available.



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

Safety agency listed.



Choose from the following at no charge:



7705 ✓

7715 ✓

*meets 200 mA short circuit requirements

PRODUCTIVITY-ENHANCING FEATURES



Basic PLC relay control



Reduce ramp time during DC Hipot



Confirms proper DUT connection



High frequency filter for corona detection



Compatible with SC6540 scanning matrix (7700 only)



Instrument control software



Accredited calibration options available

SAFETY FEATURES



Automatic operator shock protection



Easily disable HV output



Request a Live Web Demo

Input Specifications

Voltage	7700	100/115/200/230 VAC ± 10%, single phase, user selection
	7705/7710 7715/7720	115/230 VAC ± 10%, single phase, user selection
Frequency		50/60 Hz ± 5%
Fuse	7700	15 Amp 250 V fast blow internal
	7705/7710 7715/7720	6.3 Amp, 250 V Slow Blow

Dielectric Withstand Test Mode

Output	7700	5 kV @ 100 mAAC, 6 kV @ 10 mADC
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	7700	AC Range: 0.00 - 99.00 mA Resolution: 0.01 mA/step DC Range: 0 - 9999 µA Resolution: 1 µA/step
	LO-Limit	AC Range: 0.000 - 9.999 mA Resolution: 0.001 mA/step DC Range: 0 - 999.9 µA Resolution: 1 µA/step
	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	7700	12 mA peak maximum, (ON/OFF selectable all testers)
	7710	13 mA peak maximum, 10 mADC, ON/OFF selectable
	7720	6.75 mA peak maximum, 5 mADC, ON/OFF selectable
DC Charge LO	7700	Range: 0.0 - 350 µADC or auto set
	7710/7720	
Arc Detection	7700/7710/7720	1-9
	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	7700	Range: 0.00 - 6.00 kV full scale Accuracy: ± (2% of reading + 20 V)
	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	7700	Auto Range AC Range 1: 0.000 mA - 3.500 mA Range 2: 3.00 - 99.00 mA
	DC	Range 0.0 µA - 350.0 µA Range 2: 300 µA - 3500 µA Range 3: 3000 µA - 9990 µA
	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	7700	4% Ripple rms at 6 kVDC @ 3.5 mA, Resistive load
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: 60 or 50 Hz, user selection
Output	7700	± (1% of output + 5 V) from no load to full load
Regulation	7705/7710 7715/7720	± (1% of output + 10 V) from no load to full load
Discharge	7700	≤ 200 m secs
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	7700	AC Range: 0.1 - 999.9 sec DC Range: 0.4 - 999.9 sec
	7705/7715	Range: 0.3 - 999.9 sec
	7710/7720	Range: 0.4 - 999.9 sec
Ground Continuity	7700	Current: DC 0.1 A ± 0.01 A, fixed Max. Ground Resistance: 1 Ω ± 0.1 Ω, fixed
Ground Fault		
Interrupt		HV Shut Down Speed: < 1 ms
	7700	GFI Trip Current: 450 µA max (AC or DC)
	7705/7710/7715/7720	GFI Trip Current: 1 mA max

Insulation Resistance Test Mode (Model 7700 only)

Output Voltage	Range: 100 - 1000 VDC Resolution: 1 V/step Accuracy: ± (2% of reading + 2 V)		
Short Circuit Current	Maximum: 12 mA peak		
Voltage Display	Range: 0 - 1000 V Resolution: 1 V/step Accuracy: ± (2% of reading + 2 counts)		
Resistance Display	Range: 1 - 9999 MΩ (4 digit, auto ranging) Resolution: 500 VDC 1000 VDC		
	MΩ	MΩ	MΩ
	0.001	1.000 - 5.388	1.000 - 9.999
	0.01	1.40 - 53.88	2.80 - 99.99
	0.1	14.0 - 538.8	28.0 - 999.9
	1	140 - 9999	280 - 9999
	Accuracy: ± (2% of reading + 2 counts) at test voltage 500 - 1000 V and 1 - 1000 MΩ ± (8% of reading + 2 counts) at test voltage 500 - 1000 V and 1000 - 9999 MΩ ± (8% of reading + 2 counts) at test voltage 100 - 500 V and 0 - 1000 MΩ		
Charge-LO	Range: 0.000 - 3.500 µA or auto set		
HI-Limit	Range: 0 - 9999 MΩ (0 = OFF)		
LO-Limit	Range: 1 - 9999 MΩ		
Delay Timer	Range: 0, 0.5 - 999.9 sec (0 = Continuous)		

General Specifications

Mechanical		Tilt up front feet
Dimensions	7700	(WxHxD) 17 x 5.8 x 16.5 in. (432 x 147 x 419 mm)
	7705/7710/7715/7720	(WxHxD) 16.93 x 5.24 x 15.75 in. (430x133x400mm)
Weight	7700	61.65 lbs (28 kg)
	7705/7710/7715/7720	48.9 lbs (22 kg)
Interface		Standard USB/RS-232, Optional GPIB
Memory	7700	50 memories w/8 Steps per memory
	7705/7710/ 7715/7720	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.