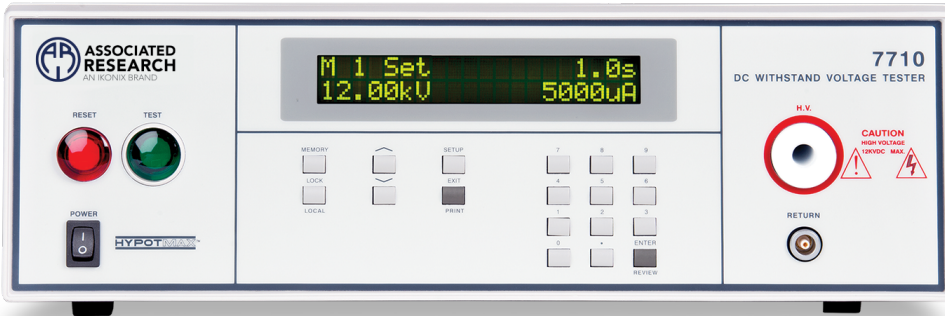


# HypotMAX<sup>®</sup>

The Safest and Most Reliable Automated High Voltage Hipot Instrument Available



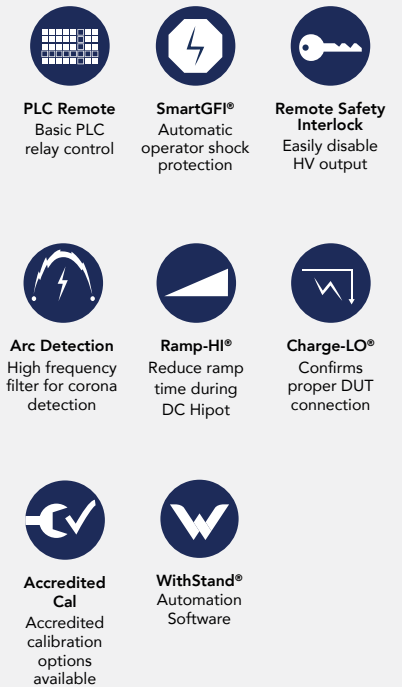
Our HypotMAX<sup>®</sup> Series is a complete line of automated Hipot instruments designed to meet the demanding requirements of high voltage applications. We've included our patented SmartGFI<sup>®</sup> feature for maximum operator safety as well as a variety of advanced features to increase productivity 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



## SAFETY & PRODUCTIVITY FEATURES



## Find the Model that Fits Your Testing Needs



AC Hipot



DC Hipot

|      |   |   |
|------|---|---|
| 7705 | • |   |
| 7710 |   | • |
| 7715 | • |   |
| 7720 |   | • |

| INPUT SPECIFICATIONS           |  |
|--------------------------------|--|
| Voltage                        | 115/230 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<br>7710: 12 kV @ 10 mADC<br>7715: 20 kV @ 10 mAAC<br>7720: 20 kV @ 5 mADC  |
| HI-Limit and LO-Limit          | 7705<br>Range 1: 0.0 – 9,999 mA<br>Resolution: 0.001 mA<br>Range 2: 10.00 – 20.00 mA<br>Resolution: 0.01 mA  |
|                                | 7710<br>Range 1: 0.00 – 999.9 µA<br>Resolution: 0.1 µA<br>Range 2: 1,000 – 9,999 µA<br>Resolution: 1 µA  |
|                                | 7715<br>Range: 0.00 – 9,999 mA<br>Resolution: 0.001 mA   |
|                                | 7720<br>Range 1: 0.0 – 999.9 µA<br>Resolution: 0.1 µA<br>Range 2: 1,000 – 5,000 µA<br>Resolution: 1 µA/step  |
|                                | 77XX<br>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<br>1 – 8 at output voltage ≥ 7.00 kV  |
|                                | 7710/7720 1 – 9  |
|                                | 7715 1 – 9 at output voltage < 15.00 kV<br>1 – 7 at output voltage ≥ 15.00 kV  |
| Voltage Display                | 7705 Range: 0.00 – 10.00 kV Full scale<br>Accuracy: ± (2% of reading + 20 V)   |
|                                | 7710 Range: 0.00 – 12.00 kV Full scale<br>Accuracy: ± (2% of reading + 20 V)   |
|                                | 7715/7720 Range: 0.00 – 20.00 kV Full scale<br>Accuracy: ± (2% of reading + 20 V)  |
| Current Display                | 7705 Auto Range<br>Range 1: 0.000 – 3.500 mA<br>Range 2: 3.00 – 20.00 mA   |
|                                | 7710 Auto Range<br>Range 1: 0.0 – 350.0 µA<br>Range 2: 300 – 3500 µA<br>Range 3: 3,000 – 9,999 µA  |
|                                | 7715 Auto Range<br>Range 1: 0.000 – 3.500 mA<br>Range 2: 3.00 – 10.00 mA   |
|                                | 7720 Auto Range<br>Range 1: 0.0 – 350.0 µA<br>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<br>± (1% of output + 5 V) from Regulation<br>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)<br>AC Range: 0, 0.3 – 999.9 sec or min (0=Continuous)<br>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<br>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<br>Optional: GPIB                |
| Dimensions (W x H x D)         | 16.93" x 5.24" x 15.75" (430 x 133 x 400 mm)           |
| Weight                         | 7705: 63.3 lb (28.7kg)                                 |
|                                | 7710: 63.1 lb (28.6kg)                                 |
|                                | 7715: 59.4 lb (26.9kg)                                 |
|                                | 7720: 61.6 lb (27.9 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.