ASSOCIATED RESEARCH, INC.

Instruments for Electrical Safety Compliance Testing

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The first semi-automated Microprocessor Controlled Dielectric Withstand testers. All models include enhanced PLC control and advanced failure detection systems.

FEATURES/BENEFITS SPECIFICATIONS OPTIONS 3D TOUR

HYPOTPLUS II Features & Benefits

Standard Features and Benefits

Feature **Digitally set arc detection**

Benefit 9 sensitivity levels to check for lower arcing conditions for diagnostic purposes

Feature **Dedicated function keys**

Benefit Allow the user to quickly access instrument functions without having to navigate through a menuing system.

Feature **Flashing high voltage indicator**

Benefit Flashes and remains active while HV is on.

Feature **Ground Continuity Test**

Benefit For grounded and third pin terminated products, it allows for a quick and easy check of continuity on a ground system. This test must be passed before a Hipot Test ia activated and is a requirement of UL and other safety agencies. A three pin remote receptacle box comes standard as part of the system.

Feature **Password lock-out**

Benefit A password may be set to restrict access to the instrument's set-up mode.

Feature **Enhanced LO limit setting**

Benefit Operating across the full range of leakage current, 0.00-19.99mA AC or 0.00-5.99mA DC. Allows detection of low leakage levels during a test to ensure that the device under test is connected. The user can select minimum current flow based on anticipated current draw of a device under test that is known to be good.

Feature **Readability down to 100 microamps**

Benefit Provides trip point setability to detect low levels of leakage current

Feature **Fast shut down speed**

Benefit In the event of a breakdown or short condition the HypotPLUS II will shut down in less than 0.4 milliseconds.

Feature **Complete front panel digital calibration**

Benefit Non-invasive calibration is accomplished through the front panel. No calibration potentiometers to adjust which eliminates drifting. High voltage is not active during calibration.

Feature **Enhanced remote control**

Benefit Test inputs are provided for Test, Reset and Program Select. Three remotely accessible programs are available to automate your testing needs. Test outputs include Pass, Fail, and Test in Process.

Optional Features and Benefits

Feature **10-volt analog signal**

Benefit Enhances the ablility to use HypotPLUS II in an automated system. This analog signal allows the user full access to the voltage and current controls. The user can set the voltage and read back current and voltage over the full range of HypotPLUS II.

Feature **Real current (5500DT only)**

Benefit Many DUT's are highly capacitive. This includes any item with line filters or items such as motors. The real current option allows the user to monitor only the REAL portion of the leakage current and ignore any REACTIVE component that is present due to the capacitance of the DUT. Either REAL or TOTAL current may be read. Independent failure settings for REAL and TOTAL currents are also provided.

HYPOTPLUS® II Specifications

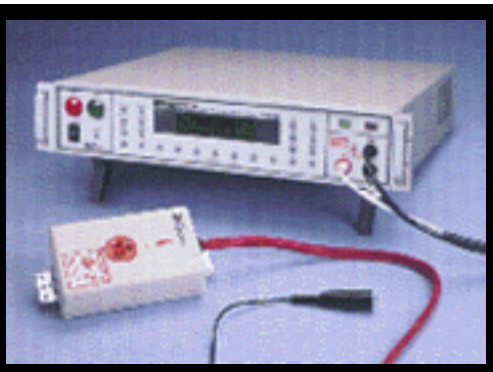
Models:	AC only (Model 5500DT)	AC/DC (Model 5560DT)
INPUT	115 VAC (+/- 15%), 47-63 Hz, Single Phase 230 VAC (± 15%), 47-63 Hz, SinglePhase, User Selectable	
FUSE	115 and 230 VAC-5 Amp	
OUTPUT RATING	5 KV AC @ 20 mA	5 KV AC @ 20 mA 6 KV DC @ 6 mA
OUTPUT ADJUSTMENT	0-5 KV AC, 10 volt/step 0-20.00 mA AC, 0.01 mA/steps	0-5 KV AC (6 KV DC), 10 volt/steps 0-20.00 mA AC and 6 mA DC, 0.01 mA/steps
HIGH TRIP RANGE	0.05-20.00 mA AC Accuracy +(2% of setting + 0.02mA)	0.05-20.00 mA AC and 0.02-6.00 mA DC Accuracy +(2% of setting + 0.02 mA)
CONTINUITY TRIP	1.1 Ohm maximum at 0.1 Amp	
FAILURE DETECTOR	Audible and Visual (LED and displayed on LCD) meter holds breakdown voltage and leakage current reading after failure.	
VOLTAGE DISPLAY	3 Digits, 6.00 kV Full Scale, LCD Display Accuracy: Readings + (2% of reading + 10 volts) Settings + (2% of reading + 5 volts)	
CURRENT DISPLAY	4 Digits, 20.00 mA Full Scale, LCD Display Accuracy: Readings +/-(2% of reading + 0.02 mA)	
DC OUTPUT RIPPLE	**********	less than or equal to 4% (6 kV DC, 6 mA)
AC OUTPUT WAVEFORM	Sine wave, Distortion less than or equal to 1%	
AC OUTPUT FREQUENCY	50 or 60 Hz, User Selectable	
OUTPUT REGULATION	1% of Setting + 5 Volts	
DWELL TIMER	0.5-999.9 seconds in 0.1 second increments or continuous, accuracy + 10 milliseconds	
RAMP TIMER	0.5-999.9 seconds in 0.1 second increments accuracy +/- 10 milliseconds	

REMOTE CONTROL (PLC)	The following input and output signals are provided through two 9 pin D type connectors; 1. Inputs: test, reset and withstand processing. 2. Remote recall of memory program #1, #2 and #3 3. Outputs: pass, fail, test in process, reset out, and start out.
MEMORY	Allows storage of up to 10 different test programs
SECURITY	User selectable password to avoid unauthorized access to test set-up program
LINE CORD	Detachable 7 ft. (2.13 m) power cable terminated in a three prong grounding plug
TERMINATIONS	5 ft. (1.52m) high voltage and return leads with clip and a standard U.S. style (NEMA 5-15) remote receptacle box for testing items terminated with a line cord. International plugs also available.
MECHANICAL	Bench or rack mount (2U height) with tilt up front feet Dimensions: (w x h x d) 17 x 3.5 x 16.5 inches (432 x 88 x 419mm) Weight 25 lbs. (11.34 kg) net
ENVIRONMENTAL	Operating Temperature 32-113 degrees F (0-45 degrees C) Relative Humidity - 0 to 95%
CALIBRATION	Traceable to National Institute of Standards and Technology (NIST). Calibration controlled by software. Adjustments are made through front panel keypad in restricted access calibration mode. Calibration information stored in non-volatile memory.

HypotPLUS II includes rear panel high voltage and return connections and remote control connections to make it easier to build into a rack mount system.

Advance high resolution LCD clearly indicates set-up parameters and test results.

HypotPLUS II shown with optional SPO2 high voltage test probe.



HypotPLUS II shown with standard rack mount handles and remote receptacle box for testing products terminated in a line cord.

HYPOTPLUS II

Options

Options	
Part Number	**Description**
1-01	10 volt Analog Interface
2-03	Real Current (includes 3kVAC @35mA)
3-07	Remote Interlock Function