

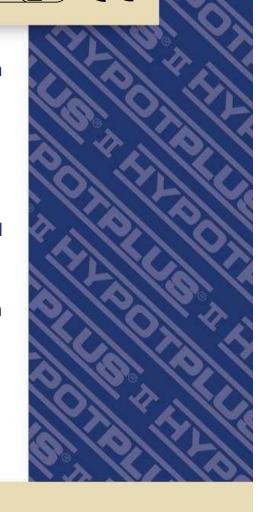
Dielectric Withstand Testers

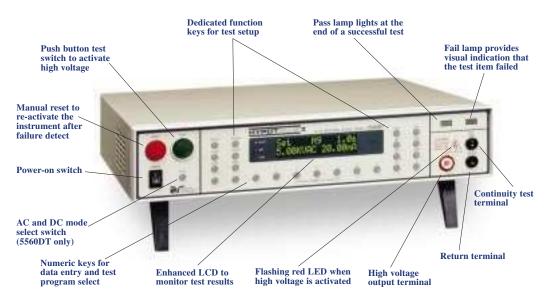
For Production Line Safety Agency Compliance Testing



- Microprocessor Digital Design with Software Friendly Menuing
- Tamper Proof Front Panel Controls
- Enhanced PLC & Ten Volt Analog
 Signal for Automated Applications
- Can be Interconnected to HYAMP[®] II Ground Bond Tester to form a Semi-Automated Test System
- Advanced Failure Detection System Including Continuity, LO, HI, Arc, Short and Breakdown







The HypotPLUS®II includes full microprocessor control to enhance ease of use and operator safety. This instrument provides you with all the capability you need to meet hipot and continuity tests required by UL, CSA, VDE, IEC, TÜV, other safety agencies and the European Norms including the LOW VOLTAGE DIRECTIVE 73/23/EEC. HypotPLUS®II is available in an AC version (Model 5500DT) or an AC/DC version (Model 5560DT) to make it flexible enough to meet a wide range of testing applications.

HypotPLUS® II Features and Benefits

FEATURE Advanced, menu driven software

BENEFIT The easy to follow setup screens ensure that the operator correctly sets up all test parameters.

FEATURE Tamper proof front panel controls

BENEFIT This makes it possible to limit user access to the setup screens so that only authorized personnel with a security password can change test parameters. Passwords are programmable to ensure that the required test parameters cannot be tampered with.

FEATURE Storage of up to 10 different test programs

BENEFIT A real benefit for manufacturers that test different products. This makes it possible to store all the various test parameters required and quickly recall them for each different product that needs to be tested.

FEATURE Ground Continuity Test

BENEFIT For products terminated with a three pin plug, it allows for a quick and easy check of continuity on a ground system. This test must be passed before a Hipot Test is 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 Remote memory access

BENEFIT Up to three program memories can be accessed through the remote control (PLC) port so that a manufacturer can quickly select and execute the various programs without going into the setup menu.

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 Resolution down to 10 microamps

BENEFIT Allows for the detection of low levels of leakage current.

FEATURE Digitally set arc detection

BENEFIT 9 sensitivity levels to check for lower arcing conditions for diagnostic purposes.

FEATURE Interconnection to HYAMP®II

BENEFIT By interconnecting the HypotPLUS®II and the HYAMP®II Ground Bond tester, a true semi-automated test system is formed. The test system can be configured to test Ground Bond first and then advance to the Dielectric Withstand test. The system can also be set up to test Ground Bond and Dielectric Withstand simultaneously for greater time savings and increased throughput.

FEATURE LCD displays setup parameters & results

BENEFIT A front panel LCD allows the operator to monitor the test. The display holds the results after a test item pass or failure so that the operator can easily review the test results. Indications of LO, HI, Arc, Short and Breakdown are clearly displayed after a failure.

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.

FEATURE Real current*

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.

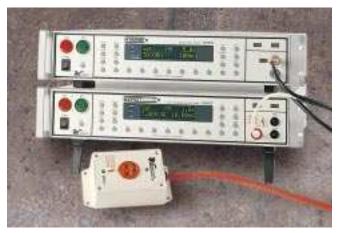
FEATURE 10-volt analog signal*

BENEFIT Enhances the ability 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 voltage and read back current and voltage over the full range of the HypotPLUS®II.

FEATURE CE approved & TÜV listed

BENEFIT You can be assured that HypotPLUS®II is safe to use since the TÜV-GS mark means it has passed the tough design and performance requirements as called out in EN 61010 and IEC 1010 International Safety Standards.

*Optional features and benefits.



HypotPLUS® II shown with HYAMP® II and interconnecting receptacle box for testing products terminated in a line cord. Also shown are the standard rack mount handles.

Accessories:				
Safe-T-Probe®	Allows operator to safely apply high voltage to the device under test			
Footswitch	Allows operator to test without touching tester			
Adjustable Resistor Bank	12 settings. 120K to 2.148k ohms. Helps verify regulation.			
Resistor Kit	120k ohm resistor for checking trip point. 35534			
Black Stationary Probe	Black Stationary Probe Probe used on the return side of the HypotPLUS® II. 35.			

Options:		
1-01	10 volt Analog Interface	
2-03	Real Current (option includes 3kV AC @ 35mA) (5500DT only)	
3-07	Remote Interlock Function	

INTERNATIONAL VERSIONS







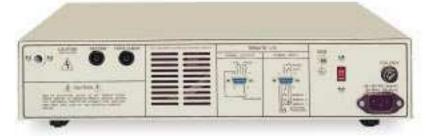






HypotPLUS® II Specifications

MODELS:	AC only (Model 5500DT)	AC/DC (Model 5560DT)	
INPUT	115 VAC (± 15%), 47-63 Hz, Single Phase 230 VAC (± 15%), 47-63 Hz, Single Phase User Selectable		
FUSE	115/230 VAC-5 Amp		
OUTPUT RATING	5KV AC @ 20 mA	5KV AC @ 20 mA 6KV DC @ 6 mA	
OUTPUT ADJUSTMENT	0-5KV AC, 10 volt/steps 0-20.00 mA AC, 0.01 mA/steps	0-5KV AC (6KV DC), 10 volt/steps 0-20.00 mA AC & 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 & 0.02-6.00 mA DC Accuracy ±(2% of setting + 0.02 mA)	
LOW TRIP RANGE	0.00-19.99 mA AC Accuracy ±(2% of setting + 0.02mA)	0.00-19.99 mA AC & 0.00-5.99 mA DC Accuracy ±(2% of setting + 0.02mA)	
CONTINUITY TRIP	1.1 Ohm maximum at .1 Amp		
FAILURE DETECTOR	Audible & Visual (LED & 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		≤ 5% (6 KV DC, 6 mA)	
AC OUTPUT WAVEFORM	Sine wave, Distortion ≤ 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 ± (0.1% of reading + 0.05 seconds)		
RAMP TIMER	0.5-99.9 seconds in 0.1 second increments accuracy ± (0.1% of reading + 0.05 seconds)		
REMOTE (PLC)	Inputs-Test, Reset, Memory Select Outputs-Pass, Fail, Remote Alarm, Test in Process		
MEMORY	Allows storage of up to 10 different test programs		
SECURITY	User selectable password to avoid unauthorized access to test setup program		
LINE CORD	Detachable 7 ft. (2.13 m) power cable terminated in a three prong grounding plug		
TERMINATIONS	5 ft. (1.52 m) 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 (432 x 88 x 419mm) Weight 25 lbs. (11.34 kg) net		
ENVIRONMENTAL	Operating Temperature 32° -113° F (0° - 45°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 a 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.



High resolution LCD clearly indicates setup parameters and test results. Single function dedicated keys speed setup without scrolling through the menu.

For over 60 years...

Associated Research has lead the way in the Electrical Compliance Safety industry, providing instruments and services to meet a full range of testing applications.

We offer the most extensive line of electrical safety testing instruments in the industry. Our products range from single-point manual, to fully-automated testing systems, all with the latest in microprocessor technology, and a full five-year warranty*.

*Warranty offered in North America only.



Contact us today for information on HypotPLUS® II or any of our other instruments:

- QUADCHEK® II: 4-in-1 Multi-Function Electrical Safety Compliance Analyzers include AC/DC Hipot, Insulation Resistance, Ground Bond tester and optional built-in scanner in a single instrument. Complete with IEEE-488 (GPIB) or RS-232 interface. Available in 500 VA output versions.
- HypotULTRA® II: 3-in-1 Dielectric Analyzers with AC, DC or AC/DC Hipot, Insulation Resistance and optional built-in scanner available on some models. All models available with either IEEE-488 (GPIB), RS-232 or printer interface. Available in 500 VA output versions.
- LINECHEK 510L/520L: Designed to automate line leakage testing in production line or lab environments. The 510L is a stand-alone system and the 520L can interconnect with other Associated Research safety testers of form a complete automated testing system.
- HS-8A/HS-16 Scanners: The HS-8A is an 8 port scanner and the HS-16 is a 16 port scanner. Both models are high-voltage and high-current matrix scanners for multi-product testing. (For use with QUADCHEK® II or HypotULTRA® II.)

- Autoware ™: Software designed to store, analyze and retrieve data on automated AR instruments, while performing Line Leakage, Insulation Resistance, Dielectric Withstand and Ground Bond tests. Autoware also allows for bar coding inputs and provides basic statistical analysis graphs.
- **HYAMP**[®] **II:** 30 Amp Ground Bond tester that works as a stand-alone instrument or can be interconnected to the HypotPLUS[®]II to form a semi-automated test system.
- **Hypot II:** Dielectric Withstand testers with simple PLC control for production line safety agency compliance testing.
- **HYAMP** * **JR.:** 30 Amp Ground Bond tester that works as a stand-alone instrument or can be interconnected to the Hypot * II to form a complete entry-level test system.

For additional information, contact us at:

Tel: 1-800-858-TEST(8378)

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