HYPOTULTRA[™]

• Automated Dielectric Analyzer For Safety Agency Compliance Testing



AC & DC Hipot with an insulation resistance tester in a single instrument Complete with a built-in IEEE-488 interface (GPIB)



For over 58 years, Associated Research has been dedicated to providing electrical and electronic manufacturers with solutions to their safety testing applications. Over the years we have responded to the evolving needs of our customers by introducing a steady stream of new products designed to satisfy a wide range of safety testing needs. The HypotULTRA[™] Dielectric Analyzer is the next step in the evolution of electrical safety testing instrumentation. The 3-in-1 capabilities of HypotULTRA make it versatile enough to test to UL, CSA, VDE, IEC, TÜV and other agency requirements. The built-in IEEE interface makes HypotULTRA an ideal choice for automation applications.

HypotULTRA[™] Model 6550DT Features and Benefits

Feature

- A complete 3-in-1 system that includes an AC hipot, DC hipot, Insulation Resistance Tester and IEEE interface in a single rack mount style cabinet.
- Full IEEE programmability.
- Maximum output current 20 milliamps AC, 10 milliamps DC.
- All parameters for the setups can be adjusted through a simple menu driven program by using a front panel keypad.
- Front panel LCD displays test parameters and results.
- Electronic ramp and dwell settings.

- Posi-Test[™] current/resistance sensing system.
- Line and load regulation.

Storage of up to 20 different test

- programs.
- PLC remote inputs & outputs.

Security password system.

- User activated arc detection system.
- Optional scanning system available (HS-8).
- LabVIEW[®] compatible instrument driver software.

Benefit

- Allows users to maximize use of their rack systems since they can perform all these tests and only dedicate the space that this one instrument requires. The AC/DC Hipot and insulation resistance test capability makes this instrument versatile enough for safety agency requirements.
- All functions of the instrument can be programmed over the IEEE bus which makes the instrument adaptable to an automated production environment.
- A *true* hipot tester with enough output current to test highly capacitive loads, and meet UL's 120K OHM requirement.
- Provides an easy and safe way to set trip currents and output voltages since all parameters are set without the high voltage activated. The easy to follow menu makes sure that the operator properly sets up each test mode.
- Allows the operator to monitor the test. The display also holds the results after a test item failure so the operator can easily review test results.
- Electronic ramping keeps test results consistent as well as reduces damage to sensitive products by providing a method of gradually bringing up the test voltage thus eliminating any high voltage spikes. A count-down feature indicates how much time is left on the test.
- Ensures that a test item is properly connected by monitoring minimum and maximum levels of current and resistance.
- Maintains the setting of the output voltage within 1% even if the load or the line voltage varies. This ensures results that are consistent and in compliance with safety agency requirements.
- A real benefit for manufacturers that require different test parameters. Program memories can also be accessed through the remote control port so that a manufacturer can quickly toggle through the various programs without going into the set up menu.
- This allows the QUADCHEK to be remotely monitored and set up completely through simple PLC relay control.
 - Only authorized personnel with a security password can change test parameters.
- Many tests require the monitoring of arcing levels even if they do not exceed the maximum trip current level. The 6550DT allows the operator to select whether low level arcs should be detected. This makes this instrument flexible enough to test any product.
- The optional scanning system is ideal for multi-point testing of a single item or multiple product testing. The HS-8 offers 8 individual high voltage outputs that can be setup as high, low or off. The HS-8 also has 4 ground bond outputs that can be individually selected.
- Customers already using National Instruments' LabVIEW® software can easily load the instrument driver software included with HypotULTRA and quickly begin testing.

The 6550DT includes rear panel high voltage and return connections to make it easier to build into a rack mount system.



Front panel display clearly indicates set-up parameters and test results.



