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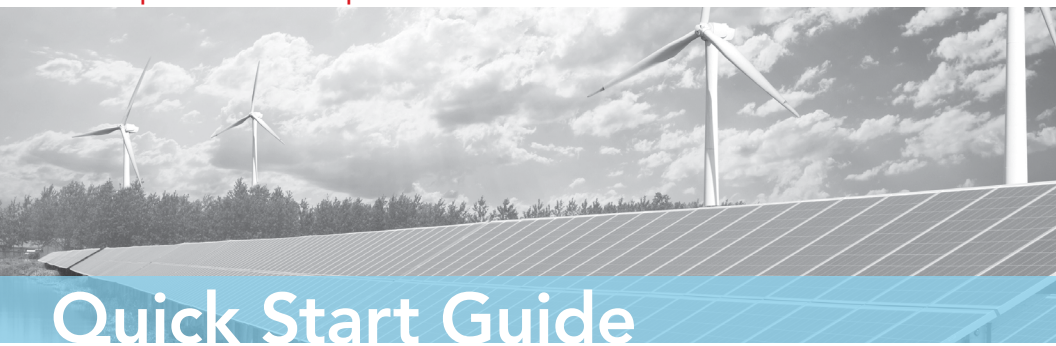


# Quick Start Guide

## HypotULTRA®

Models 7804 and 7854

## SAFETY CHECKLIST

**S**urvey the test station. Make sure it is safe & orderly.

**A**lways keep unqualified/unauthorized personnel away from the test area.

**F**amiliarize yourself with safety protocols in the event of a problem.

**E**xercise caution and never touch products or connections during a test.

**T**rain operators. Never touch clips directly and always connect the return lead first.

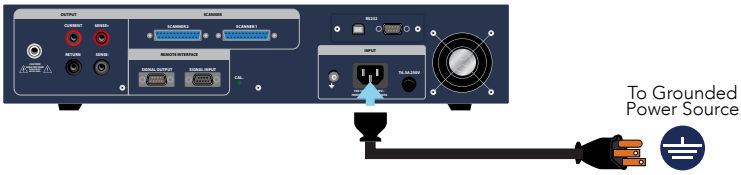
**Y**ou should always know when a test is being performed.

WARNING: THIS GUIDE WAS CREATED FOR OPERATORS HAVING SOME FAMILIARITY WITH ELECTRICAL SAFETY TESTING. AN ELECTRICAL SAFETY TESTER PRODUCES VOLTAGES AND CURRENTS THAT CAN CAUSE HARMFUL OR FATAL ELECTRIC SHOCK. TO PREVENT ACCIDENTAL INJURY OR DEATH, THESE SAFETY PROCEDURES MUST BE STRICTLY OBSERVED WHEN HANDLING AND USING A TEST INSTRUMENT. CONTACT US AT INFO@ARISAFETY.COM FOR MORE INFO ON HOW TO GET TRAINED ON ELECTRICAL SAFETY TESTING.

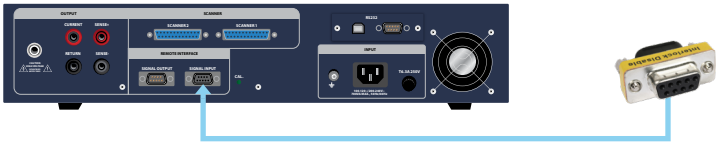
# INSTRUMENT SETUP

WARNING: LOCATE A SUITABLE TESTING AREA WITH A THREE-PRONG, GROUNDED OUTLET. BE SURE THAT YOUR THREE-PRONG OUTLET HAS BEEN TESTED FOR PROPER WIRING. READ THE SAFETY CHECKLIST OF THIS GUIDE BEFORE STARTING TO TEST.

1. Connect the female end of the power input plug into the rear of the instrument and plug the male end of the cord into a grounded power source.

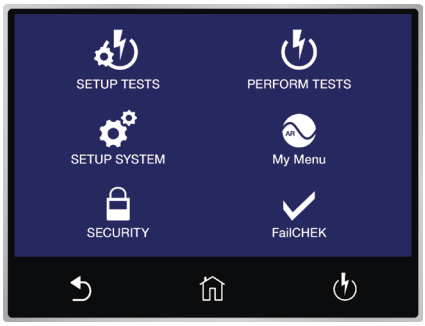



2. Plug the Interlock Disable Key into the signal/input connector on the rear panel of the instrument.



3. Push the POWER button to turn instrument ON.

   The initialization screen will appear first, then after three seconds the home screen will appear as shown below.




Home Screen

# TOUCH SCREEN OPERATIONS

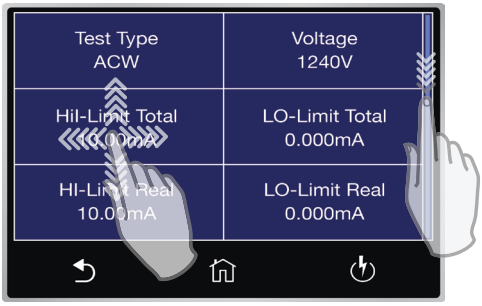
Back Home Test Screen

## TOUCH

Tap the virtual buttons to open various functions.

## SWIPE UP, DOWN, LEFT & RIGHT

Simple gestures allow you to quickly move through screens & parameters.



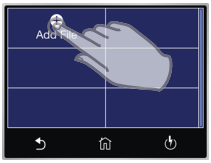

## DRAG & DROP

Simply touch and hold the test file, test step, or parameter and drag the file to the appropriate location.

# TEST SET UP

## TAP SETUP TESTS

Home Screen




## TAP ADD FILE

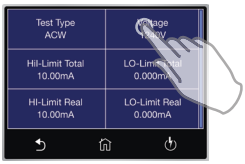
File Screen

## ADD FILE NAME

Tap the ENTER ( ↵ ) key to save your selection.

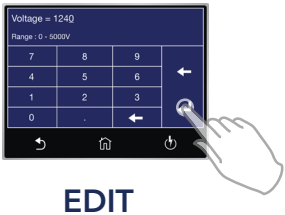
## TAP ADD STEP

Add Step




## TAP TEST SETTING

Tap the test parameter you would like to edit. Swipe up and down to scroll through test parameters.

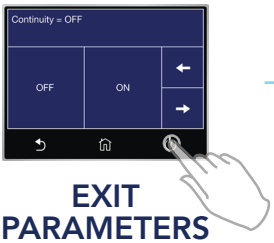



## EDIT PARAMETERS

Tap parameter values to edit individually. After you adjust each parameter, tap ENTER ( ↵ ) arrow key to save changes.

## ADJUST PARAMETERS

Scroll through each parameter to adjust values based on your application.




## EXIT PARAMETERS

Press the Test Screen button to exit out of Parameters.

## SAVE FILE CHANGES

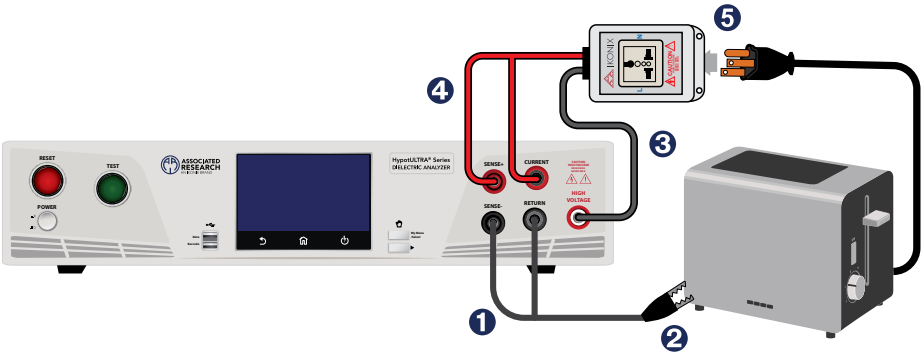
Press ENTER to save your file changes. You will be redirected to the Test Screen.

# TEST CONNECTION

**ADAPTER BOX CONNECTIONS (7804/7854)**
The adapter box (P/N 38482) provides an easy way to connect the HypotULTRA® to a device under test (DUT).

**Note:** If you are testing a Class I product, safety agencies may require you to perform a Ground Bond test on the ground circuit of the DUT along with the Hipot test.

1. Plug the black return lead (P/N 38490) into the Return terminal. Plug black sense lead into the Sense (-) terminal.
2. Attach the clip-terminated end of the return lead to the dead metal on the chassis of the DUT.
3. Connect the high voltage lead from the Adapter Box into the High Voltage terminal on the front panel of the instrument.
4. Plug the red sense lead from the Adapter Box into the Sense (+) terminal. Plug the red high current test lead into the Current terminal.
5. Plug the power cord of the DUT into the Adapter Box receptacle.



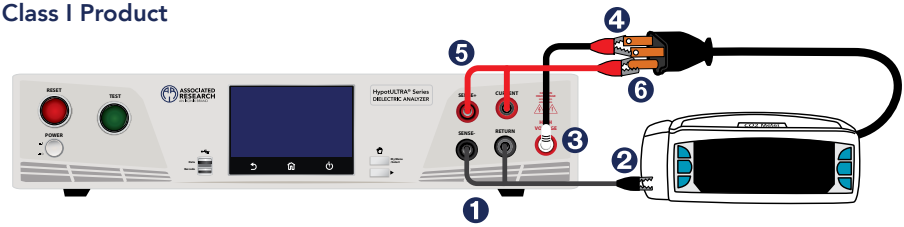
# TEST CONNECTIONS

WARNING: DO NOT TOUCH THE DEVICE UNDER TEST ONCE YOU START THE TEST.

## TEST LEAD CONNECTIONS

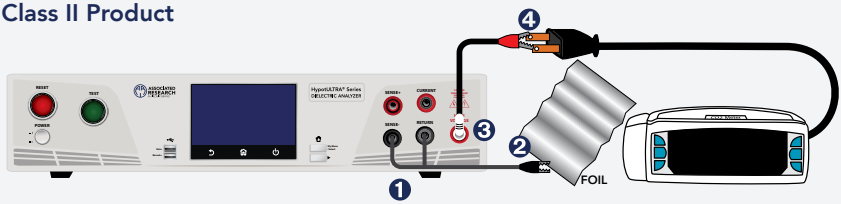
1. Plug the black return lead (P/N 38490) into the Return terminal. Plug black sense lead into the Sense (-) terminal.
2. Attach the clip-terminated end of the return lead to the dead metal on the chassis of the DUT.
3. Connect the high voltage lead (P/N 4040A-08) into the High Voltage terminal on the front panel of the instrument.
4. Attach the high voltage lead to the current-carrying conductors of the DUT.
5. Plug the red sense lead into the Sense (+) terminal. Plug the high current test lead into the Current terminal. These two leads act as the red high current output.
6. Clip the other end to the ground pin of the DUT plug.

### Class I Product




If there is no ground circuit present on the DUT, you can use test leads to connect the HypotULTRA® to the DUT.

### Class II Product




**Did you know?** If necessary, a 10 x 20 cm piece of foil can be attached to the enclosure to simulate a full hand contact to the DUT. This foil acts as the return point. The Return and Sense (-) terminal are attached to the foil. Always check to make sure you made a good connection between the DUT and the return clip.

# PERFORM TESTS

TAP PERFORM TESTS

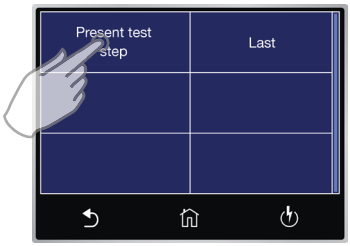
OR

TAP THE TEST SCREEN BUTTON

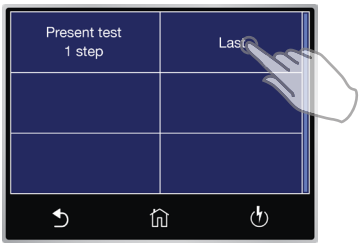
PUSH THE TEST BUTTON

# RESULTS

After a test has completed, the Results icon will be available on the screen. Tap RESULTS to view your test results.




Tap "Present test step" to view the results of the last test step.




Tap "Last" to view the previously performed steps.

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For additional information about these and other key features of the HypotULTRA®, please consult the full Operation and Service Manual or call us toll-free 1-800-858-TEST (8378) or +1-847-367-4077

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