



# 2200 Series

## Quick Start Guide

### SAFETY CHECKLIST

- ☐ **KEEP** unqualified/unauthorized personnel away from the test area
- ☐ **ARRANGE** test stations in a safe and orderly manner
- ☐ **NEVER** touch products or connections during a test
- ☐ **STOP** the test first in the event of a problem
- ☐ **NEVER** perform a Ground Bond test on energized circuitry or equipment
- ☐ **BE SURE** to always connect the return test lead first
- ☐ **HANDLE** test clips by insulation only, never touch clips directly



**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.

For Model: 2205

# Front Panel Controls



- 1 **LED DISPLAY:** Main readout display of test settings and test results.
- 2 **RESISTANCE INDICATOR:** This LED indicates when resistance is displayed in either test or setup mode.
- 3 **VOLTAGE INDICATOR:** This LED indicates when voltage is displayed in either test or setup mode.
- 4 **DELAY INDICATOR:** This LED indicates when delay time is displayed in either test or setup mode.
- 5 **DWELL INDICATOR:** This LED indicates when dwell time is displayed in either test or setup mode.
- 6 **HIGH VOLTAGE INDICATOR:** This LED flashes to warn the operator that the high voltage is present at the high voltage output terminal.
- 7 **DISCHARGE INDICATOR:** This LED indicates charge status of device under test (DUT). Green < 30V, Red > 30V
- 8 **MEGAOHM RANGE INDICATOR:** This LED indicates when the displayed resistance measurement or limit is in megohms.
- 9 **GIGOHM RANGE INDICATOR:** This LED indicates when the displayed resistance measurement or limit is in gigohms.

# Front Panel Controls



- ⑩ **SET KEY:** Use this key to advance forward through the setup menus.
- ⑪ **TEST BUTTON:** Starts a test.
- ⑫ **RESET BUTTON:** Red momentary contact switch used to reset the instrument in case of a failure. Also serves as an abort signal to stop any test in progress.
- ⑬ **POWER SWITCH:** Rocker-style switch with international ON ( I ) and OFF ( O ) markings.
- ⑭ **UP-DOWN ARROW KEYS:** Use these keys to cycle through the test parameter setup.
- ⑮ **EXIT KEY:** Use this key to exit any menu.
- ⑯ **HIGH VOLTAGE OUTPUT TERMINAL:** Provides the high voltage used during a Hipot test. Connector used to attach the high voltage test lead, adapter box high voltage lead or test fixture high voltage lead to the instrument.
- ⑰ **RETURN TERMINAL:** Provides the return current path. Connector used to attach the return test lead, adapter box return lead or test fixture return lead to the instrument.

## Back Panel Controls



- 1 VOLTAGE SELECT SWITCH:** Line voltage selection is set by the position of the switch. Push the switch down for 115-volt operation, and push it up for 230-volt operation.
- 2 REMOTE INPUT:** 9-pin D-type subminiature male connector for remote control of TEST, RESET, and INTERLOCK functions.
- 3 CALIBRATION KEY:** Press this key while the instrument is being powered ON to enter calibration mode.
- 4 THERMAL FAN:** Used to cool the instrument.
- 5 FUSE RECEPTACLE:** To change the fuse, unplug the power (mains) cord and turn the fuse receptacle counterclockwise. The fuse compartment will be exposed. Please replace the fuse with one of the proper rating.
- 6 INPUT POWER RECEPTACLE:** Standard IEC 320 connector for connection to a standard NEMA style line power (mains) cord.

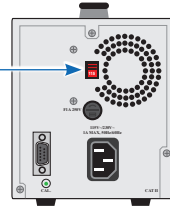
# Setting Up The Instrument



**WARNING:** LOCATE A SUITABLE TESTING AREA WITH A THREE-PRONG, GROUNDED OUTLET. BE SURE THAT THE THREE PRONG GROUNDED OUTLET HAS BEEN TESTED FOR PROPER WIRING. MAKE SURE YOU READ THE SAFETY CHECKLIST OF THIS GUIDE BEFORE USING THE INSTRUMENT.

1. Adjust the line voltage select switch on the rear panel of the instrument to the appropriate input voltage rating, either 115 VAC or 230 VAC.

1.



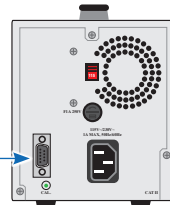
2. Connect the female end of the standard NEMA style line power (mains) cord into the input power receptacle on the rear panel of the instrument and plug the male end of the cord into a grounded power source.

2.



3. Connect the Interlock Disable key to the Remote Input connector on the back panel of the instrument. This is required in order to run a test.

3.



4. Turn the instrument power switch ON.

4.



Upon power up, you will see the Slaughter company name, model number and current software version briefly appear on the display. After this, 0.0 will be displayed and the Voltage LED display will be illuminated. The EXIT key will toggle through the test parameters for review.

# Editing Test Parameters

If you wish to change the default test parameters you may do so quickly and easily using the instrument's front panel.

1. Press the SET key to toggle through the parameters.
2. Use the up and down arrow keys to edit each test parameter.
3. Once you are finished editing the parameter press the EXIT key to return to the Perform Test screen.

Default test type parameters are shown below.

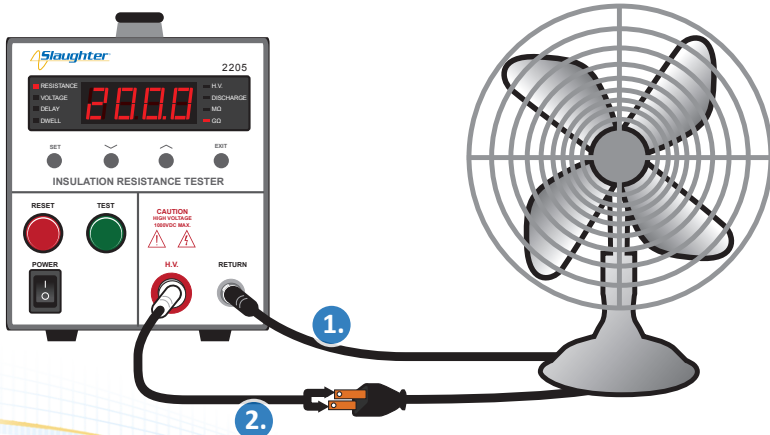
## Insulation Resistance Mode

- Resistance: 0.1 MΩ
- Voltage: 500 V
- Delay: 1.0
- Dwell: 0.0 s

# Test Connections

## DUT Connection

1. Connect the black return lead (102-069-904) to the front panel return terminal and connect the other end of the lead to the dead metal on the chassis of the DUT.
2. Connect either the high voltage lead (102-055-913) or high voltage probe (102-050-913), whichever one you are using for your application, to the high voltage output terminal located on the front panel and connect the other end of the cable to both the hot and neutral pins of the line cord.



After a test has been performed, the test results will be indicated on the front panel display.

**PASS:** If the DUT passes the test, you will hear a short audible beep and the display will indicate the test results.

**FAIL:** If a failure occurs, you will hear a long audible alarm and the red flashing indicator will light up. To stop the alarm press the red RESET button.



