

Microprocessor-Controlled Digital Insulation Resistance Tester

For Production Line Testing



Model 2205 is a fully microprocessor-controlled Insulation Resistance tester providing measurements up to 200 Gigohms at voltages up to 1000 VDC. It incorporates the same technology found on our microprocessor-controlled hipot testers including an easy-to-read LED display and a programmable limit for go/no-go production line testing. These features, combined with Slaughter's outstanding service and support, make this unit the most cost-effective tester available today!

Features & Benefits

FEATURE

Pass/Fail Operation

PLC Remote Control

Tamper-Resistant Front Panel Design

LED Display With Meter Memory

No High Voltage Present During Setup

Line & Load Regulation

BENEFIT

A programmable limit can be set for pass/fail operation, eliminating operator judgements. An audio alarm and reject lamp notify the operator of failures.

Inputs and outputs for PLC remote control are available through a 9-pin D type connector on the back panel.

Prevents operators from inadvertently or accidentally modifying test parameters and ensures consistent and reliable test results, minimizing the need for costly and time consuming product re-testing.

Easy-to-read digital display simplifies the task of setting test parameters and interpreting test results, which reduces errors and makes the operator's job easier. Meter memory allows operators to review last test results.

Operators can set output voltage and resistance limits to the desired levels in the absence of any high voltage.

Tests are more repeatable and reliable, since proper voltage is consistently applied to all devices being tested, regardless of fluctuations in line input voltage or the load created by the device under test.

Slaughter
Instruments for Electrical
Test & Measurement

Model 2205 Insulation Resistance Tester



- A. LED DISPLAY & HV ON LED INDICATOR are clear and easy to read.
- B. UP & DOWN ARROWS provide fast setup of parameters.
- C. SET KEY provides quick access to setup menus.
- D. EXIT KEY enables the Run Mode after setup and allows operators to select Resistance, Voltage or Dwell time to be viewed on LED display during testing.
- E. TEST SWITCH & RESET SWITCH are large and easy to use.
- F. HV OUTPUT & RETURN JACKS are recessed for safety.

SPECIFICATIONS	
REMOTE INTERFACE	Provided through 9 pin D type connector 1. Inputs: test, reset, safety interlock 2. Outputs: pass, fail and test in progress
LINE CORD	Detachable 6 ft. (1.8m) power cable terminated in a three prong grounding plug.
TERMINATIONS	High Voltage Output - Socket Shielded Return - BNC Connector
MECHANICAL	Dimensions: (W x H x D) 4.7 x 5.2 x 11.8 in. (120mm x 133mm x 300mm) Weight: 8.81 lbs. (4 Kgs)
ENVIRONMENTAL	Operating Temperature : 32° - 104°F (0° - 40°C) Relative Humidity - 0 to 80%
CALIBRATION	Traceable to National Institute of Standards and Technology (NIST). Calibration controlled by software. Adjustments are made through front panel keypad in a calibration mode activated by rear panel switch. Calibration information stored in non-volatile memory.

SPECIFICATIONS CONTINUED	
INPUT VOLTAGE	115/230V selectable, ± 15% variation 50/60 Hz ± 5%
FUSE	115VAC, 230VAC - 1A fast acting 250VAC
OUTPUT	Rating DC 30 - 1000V Regulation: ± (1% of output + 1V)
VOLTAGE SETTING	Rating DC 30 - 1000V 1 volt/step Accuracy: ± (1% of Setting + 1V) (relative to displayed output)
RIPPLE	< 2%
DWELL TIME SETTING	0, 1.0 - 999.9 seconds, 0.1 second/step 0 = for continuous running
DELAY TIME SETTING	0, 0.1 - 999.9 seconds, 0.1 second/step 0 = No Delay
FAILURE SETTINGS	Low limit : 0.1 MΩ - 999.9 MΩ 1000 MΩ - 9999 MΩ 10.0 GΩ - 200.0 GΩ 0 = OFF
DISPLAY	Voltage (4 digits) Low Range: DC 0.0V - 100.0V High Range: DC 101V - 1000V Resolution: High Range (1V), Low Range (0.1V) Accuracy: ± (2% of reading + 2V) Resistance (4 digits) 0.01 MΩ - 200.0 GΩ 7 Ranges Auto Ranging Accuracy: ± (2% of reading + 2 counts) at test voltage 500 - 1000V and 0.1 MΩ - 1 GΩ ± (3% of reading + 2 counts) at test voltage 30 - 499V and 0.1 MΩ - 1 GΩ ± (3% of reading + 2 counts) at test voltage 500 - 1000V and 1 - 20 GΩ ± (5% of reading + 2 counts) at test voltage 30 - 499V and 1 - 20 GΩ ± (10% of reading + 2 counts) at test voltage 500 - 1000V and 20 - 200 GΩ
TIMER DISPLAY	Range: 0.0 - 999.9 seconds Resolution: 0.1 second Accuracy: ± (0.1% of reading + 0.05 seconds)
DISCHARGE	Automatic Discharge of Device Under Test Indicator: Green < 30V, Red > 30V

Visit us at www.hipot.com or call us at 1-800-504-0055



Phone: (847) 932-3662
Fax: (847) 932-3665
E-mail: info@hipot.com
Web Site: www.hipot.com