

The MARTINDALE ELECTRIC Company

INSULATION TESTER MODEL MODEL 2110(115VAC) & MODEL 2130 (230VAC)

Model 2109 and 2129 are non-destructive Insulation Testers. When a breakdown in insulation occurs, the Tester will automatically shut off, and have to be manually reset. To reset the Tester simply push the Reset Button.

CONNECT TO PROPER VOLTAGE SOURCE BEFORE OPERATING.

These high voltage, transformer type Insulation Testers are easy to use, for quick, positive determination of grounds, shorts, and broken wires in motors, transformers, and other low voltage equipment.

TEST

General:

1. Connect Power Cord to grounded electrical outlet per voltage specified on name tag (Front Label).
2. Set dial pointer (Selector Knob) to desired test voltage. Place Power Switch to ON. Pilot Light will light indicating high voltage on the Test Prods and unit ready for testing.
3. Hold Prod Handles at the knurled portion and slide Buttons forward with thumbs until contact Test Points are exposed.
4. Apply Test Points to work being tested. If voltage breakdown occurs, Pilot Light will dim or go out.

CAUTION: Turn Power Switch OFF before changing test voltage.

To test insulation between conductor and ground:

Apply one Point to a clean portion of the frame so good contact is made and the other Point to one end of each coil in the apparatus. If insulation withstands the test of voltage successfully, the indicating Lamp is not affected. However, when a breakdown of the insulation occurs, the Pilot Light on the Tester will dim or go out.

To test insulation between coils:

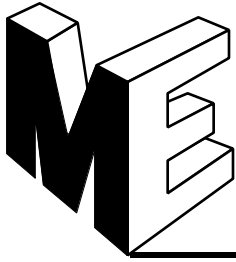
Touch one Point to the cleaned end of one coil and then touch the other Point to on cleaned end of each of the other coils. Be sure that this test is made between each pair of coils.

On complete products (motors, lamps, appliances, etc.), which contain a power cord, the test is normally made from each of the prongs on the cord set plug to any exposed metal parts. Switch on unit under test in the ON position.

MAINTENANCE and STORAGE:

When not in use, store unit within a plastic bag.

Unit must undergo yearly Calibration.



The MARTINDALE ELECTRIC Company

WARRANTY:

This tester is warranted to the original owner against defects in materials and workmanship for ninety (90) days from date of purchase. Any part found to be defective (except by overloading, misuse, neglect, fire, accident, tampering with by unauthorized serviceman, or other cause beyond the manufacturer's control), will be replaced or repaired free of charge.

SPECIFICATIONS:

Primary Power: 50/60Hz, 1 phase, 115VAC (2110), 230VAC (2130)

Test to 2500VAC in seven (7) steps: 500, 1080, 1250, 1500, 1750, 2000, & 2500.

Range 500 - 2500VAC (NEMA recommendation for insulation test is twice normal voltage plus 1000 volts) $\pm 5\%$ accuracy. Calibration is traceable to the National Institute of Standards and Technology.

Construction (packaging): metal, corrosion protected.

Transformer: completely sealed to reduce the possibility of shorting to the case. High capacity (500va), capable of testing motors 200HP and above.

Test Prods & Leads: self-retracting Test Points. They retract into fiber sleeves under spring tension to minimize chance of accidental contact with the Points.

Six (6)-foot long Leads are high voltage insulated.

Spare Parts: to be recommended on request.

Enclosures: Operating Instructions.