

High Voltage Insulation Tester



6213A IN-M

FEATURES

- High contrast OLED display
- Smart microprocessor-controlled
- 2 x 16 characters, large, High Contrast, Intelligent OLED Display
- Automatically calculates Dielectric Absorption Ratio (DAR)
- Automatically calculates Polarization Index (PI)
- Insulation resistance; Auto-ranging on all ranges.
- Ener-Save™
- Bar graph indicates test voltage. Rise and decay can be observed.
- External voltage presence warning (>500Vac or Vdc)
- Overload protection
- Low battery indicator (real time battery voltage measurement)
- Measures insulation time duration of the test
- Better than 10% accuracy on all ranges
- Auto-off

SPECIFICATIONS

Test Voltage	From 500Vdc to 10KVdc Adjustable in 500V Steps
Preset Buttons	1KV, 2.5KV, 5KV, 10KV
Measuring Range	800KΩ-500GΩ (AUTO RANGING)
Accuracy	±5% ± 2 digits
Output Power Limit	1W
Voltage Regulation	Selected Voltage +20%-5% of nominal value unless current limited. Meaning that if output current is too high, the voltage will be lowered automatically.
Weight	3.6 kg Approx.
Dimensions	330(L) x 260(W) x 160(D)mm
Power Source	1.5V "C" x 8 Alkaline Batteries
Accessories	Color coded flexible silicone test leads (AL-50+AL-30+AL-30C) Instruction manual Batteries

SPECIAL FUNCTIONS

• DAR = Dielectric Absorption Ratio.

The dielectric Absorption Ratio is the ratio of the Insulation Resistance measured at 1 Min divided per the Insulation Resistance measured at 30 Seconds.

30 Seconds after starting a test (with Ener-Save™ disabled), the tester will beep, indicating the operator that the resistance value measured at 30 second now has been saved internally.

1 Minute after starting a test (with Ener-Save™ disabled), the tester will beep again, indicating the user that the DAR result is now computed, and change the display format to now display the DAR result.

• PI = Polarization Index.

The Polarization Index or PI is the ratio of the Insulation Resistance measured at 10 Minutes divided per the Insulation Resistance measured at 1 Minute.

10 Minutes after starting a test (with Ener-Save™ disabled), the tester will beep again, indicating the user that the PI result is now computed, and change the display format to now display the PI result.

The tester will Auto-Stop at 10 minutes.

• Automatic Battery Test.

When the tester starts, it test it's batteries by drawing a heavy current from the batteries. During that heavy current, it measures the battery voltage and displays it for a few seconds on the display.

During normal use, the tester monitors the battery voltage, but without drawing a battery test current. It just measures the battery while in normal use.

• Automatic Discharge of Capacitive and Inductive Circuits.

This tester will discharge automatically all circuits charged by the tester, after a test is done, again, this will only be activated if the test leads make contact at any time before, during and after the test.

It's your responsibility to ensure proper contact of the leads at all Times.

Once a test is finished, the testers will automatically discharge capacitive or inductive circuit of their charge. The discharge can be observed on the display, in the form of a bar-graph. Again, do not disconnect the leads while discharging.

Wait until completion of the discharge before removing any lead. During discharge, the Buzzer will beep and the bar-graph will show some voltage. With some high charges, this may take some time. Be patient and let the instrument discharge completely before proceeding to removing the leads.