MEASURE WITH PRECISION
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Digital (Up to 10kV) Insulation Tester

6213A IN

FEATURES

- **Microprocessor-controlled.**
- 2 ×16 characters; large intelligent LCD module.
- 20 Insulation test voltages 500V, 1kV, 1.5kV, 2kV, 2.5kV, 3kV, 3.5kV, 4kV, 4.5kV, 5kV, 5.5kV, 6kV, 6.5kV, 7kV, 7.5kV, 8kV, 8.5kV, 9kV, 9.5kV, 10kV.
- Ener-Save™ feature to extend battery life.
- Bar-graph indicates test voltage; rise and decay can be observed.
- Visual and audible warning if external voltage is present (>500Vac or Vdc.)
- Insulation resistance; auto-ranging on all ranges.
- Overload protection.
- Low battery indicator (read time battery voltage measurement).
- Measures insulation time duration of the test.
- Low battery consumption.
- Better than 10% accuracy on all ranges.
- Auto-off.
- Calculates Dielectric Absorption Ratio (DAR) automatically.
- Calculates Polarization Index (PI) automatically.

SPECIFICATIONS

Test voltage	From 500Vdc to 10kVdc Adjustable in 500V steps
Preset buttons	1kV / 2.5kV / 5kV / 10kV
Measuring ranges	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.
Dimensions	330(L) × 260(W) × 160(D)mm
Weight (battery included)	Approx. 3600g
Power source	1.5V "C"× 8 Alkaline batteries
Safety standard	EN 61010-1 CAT III 300V EN 61326-1
Accessories	Instruction manual Color coded flexible silicone test leads Batteries

SPECIAL FEATURES

- **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 seconds 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.

- **Digital Display.**

  The digital Liquid Crystal Display is large. It measures 98mm(W) × 24mm(D) and has a 2 Lines of 16 characters. Language can be changed on demand, as an option. Dutch / French / German etc... (factory fitted at order)

- **Automatic Battery Test.**

  When the tester starts, it test its 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.