



Model 6212A IN

Digital (Up to 10kV) Insulation Tester



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.
- Bargraph 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.

Specifications

Test voltage (DC V)	0.5kV to 10kV (0.5kV increment steps)
Insulation resistance (Auto ranging)	25GΩ / 0.5kV 25GΩ at 0.5kV → 500GΩ at 10kV
Accuracy	± 3% rdg ± 1 dgt
Output current limit	50uA to 100uA (1W)
Live warning	> 500V AC
Operating-temperature	0°C ~ 40°C
Operating-humidity	85% Max. relative humidity
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

The 6212A IN is a variable high voltage Insulation meter from 500V to 10kV in 500V steps.

The meter is menu driven and uses Dynamic Current auto ranging technology.

It has a Bar-Graph which displays the voltage stressing the insulation while the test is in progress and the voltage decay during the automatic discharge of the tested circuit.

The top line of the display shows the elapsed time at the start of the test. Digital readout of the total time will remain displayed even after testing has ceased.

The 6 digit digital display is showing the actual Insulation resistance.

The instrument displays a voltage warning and sounds when AC or DC is present before injecting the test voltage.

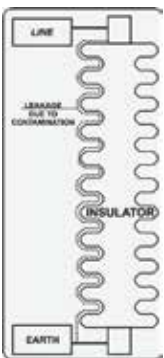
It can only detect when voltages is higher than 500V.

It will buzz intermittently when high voltage is generated and this will remain until the circuit under test is fully discharged

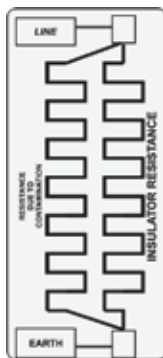
First Measurement

Measure without the guard to take everything into account and find out if need cleaning.

Dirty Insulator



Electrical Equivalent Circuit Dirty Insulator



Resistance due to contamination can be very low and lower the total resistance. Cleaning periodically can also reduce system power consumption.

Second Measurement

Measure with the guard to ensure insulator is correct.

Typical Test



Accessories

Instruction manual
Test leads
Shoulder belt
Batteries.



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