



CE

## 6212A IN

### OVERVIEW

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.

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

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

**It can only detect when voltage 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

### FEATURES

- 2 x 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.
- Insulation resistance auto-ranging on all ranges.
- Ener-Save™
- Bar-graph indicates test voltage. Rise and decay can be observed .
- Warning of external voltage presence(>500Vac or Vdc).
- Overload protection.
- Low battery indicator.
- Measure insulation time test.
- Low battery consumption.
- Smart microprocessor controlled.
- Better than 10% accuracy on all ranges.
- Auto-off.
- EN 61010-1 CAT III  
EN 61326-1



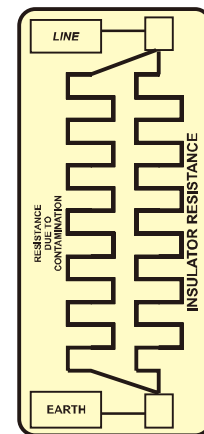
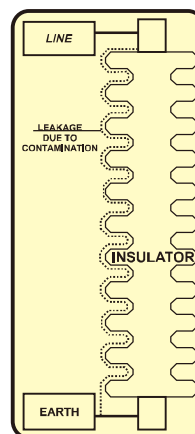
### SPECIFICATIONS

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 ±1dgt
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) x 260(W) x 160(D)mm
Weight	Approx. 3.6kg (battery included)
Power Source	1.5V "C" x 8 Alkaline Batteries
Accessories	Test leads(AL-50+AL-30+AL-30C) Instruction manual Batteries

### 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

