



# Model 6213A IN-M

## OLED Display (Up to 10kV) Insulation Tester



### Features

- High contrast OLED display
- Designed for viewing in the dark, for mining industry.
- Wide viewing angle.
- 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.
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

### 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 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.

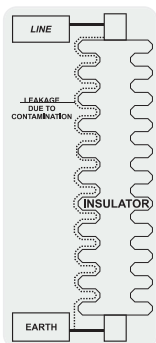
#### • PI (Polarization Index)

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.

### First Measurement

Measure Without The Guard To Take Everything Into Account And Find Out If Need Cleaning.

#### Dirty Insulator



#### Electrical Equivalent Circuit Dirty Insulator

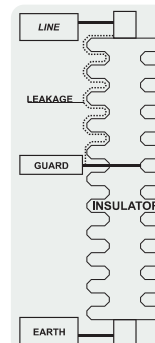


Resistance due to contamination can be very low and lower the total resistance. Cleaning periodically can also reduce system power consumption.

### Second Measurement

Measure With The Guard To Ensure Insulator Is Correct

#### Typical Test



### Accessories

Instruction manual  
Color coded flexible  
silicone test leads  
Batteries