

OLED Display (Up to 10kV) Insulation Tester



CE

FEATURES

6213A IN-M

- 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
Accessories	Instruction manual Color coded flexible silicone test leads 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 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.

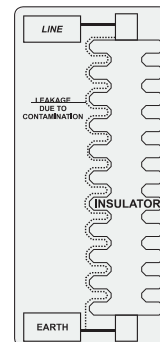
10 minutes after starting a test (with Ener-Save™ disabled), the tester will beep again, indicating the user that the PI result is now computed, and change the display format to now display the PI result.

The tester will Auto-Stop at 10 minutes.

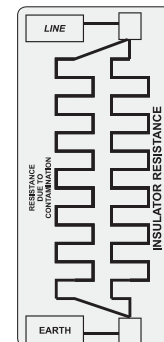
FIRST MEASUREMENT

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

