



# STANDARD

# Test & Measuring Instruments

## DIGITAL H.V. INSULATION TESTER



CE

### 6213A IN

The 6213AIN is the new SEW premium model in the already popular 621xAIN family of High Voltage Digital Insulation Testers.

The 6213AIN takes its foundation from the 6212AIN platform, but, has new **added features** with a completely newly written **software** and a low consumption **High Performance processor**.

It is displaying results much faster and has more features than ever before.

The 6213AIN has **Automatic Polarization Index and Dielectric Absorption Ratio Calculations**.

Results are displayed on the new High Contrast lcd. Its mounting angle makes it more readable for most users, in many working conditions. The users manual reflects the new features and added benefits of this instrument. It has more applications examples.

As on the other models of this family, it has **Auto-Off, Auto-Stop, EnerSave** and is a non destructive tester.

Once you start the tester, it wait for your selection. You can go up and down in voltage to select the voltage at which you want to test the insulation. Once you have selected that voltage, it need you to connect the test leads to the insulation to measure. Once you have done that, it measure voltage to ensure there is no voltage present on the insulation under test. If there is a voltage present, it will warn you to disconnect the circuit before proceeding. If its free of any voltage, then you can proceed with testing. This ensure that no damages is done to the tester.

One of the new innovation on this tester is also the way the **new unique calibration process** works. Its fully digital, has no moving parts and does not require expensive and complicated jigs or computers systems to be calibrated. Its **cheaper to maintain** than any other Digital HV Insulation tester on the market today. It is **more accurate** than the lower models numbers in the family. The 6213AIN is supplied standard with our Premium test Leads Kit, the AL-50.

The 6213AIN is the new Standard in **Best Value for Money High Voltage Insulation Meters**. It is a **low cost tool** for trend analysis. Use it to test Insulation Resistance; on Ceramic Insulators, between Bus Bars, between Open Circuit of contactors connections, off

- Variable High Voltage 500V-10kV.
- Shows Polarization Index (auto).
- Shows Dielectric Absorption Ratio.**
- Fast Calculation and Display.
- Voltage Steps of 500V.
- Color Coded Terminals-Test Leads .
- Warning Voltage Detection.
- Large LCD Display with timer.
- Automatically Stops the Test.
- Automatically Switch tester OFF.
- Works from 8 x C size 1.5V Battery.
- Very Low Consumption.
- Guard Connection to reduce errors.
- Lightweight, Robust & Compact.**
- Automatic Discharge of Circuits.
- Two-year warranty.**
- Indicates Low Battery while in Use.
- Includes AL-50 Leads as standard.

### Test leads



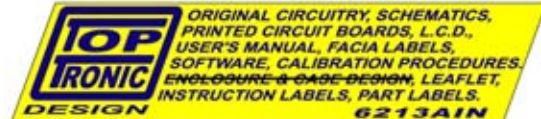
AL-50



AL-30

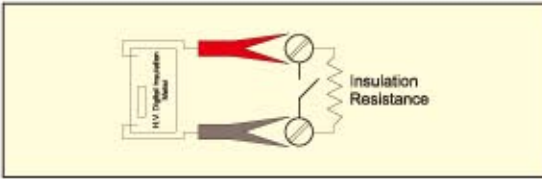


AL-30C

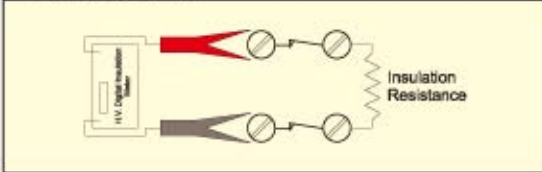


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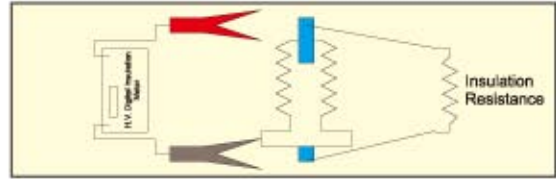
Measuring Insulation of Open Contacts of Circuit Breaker.



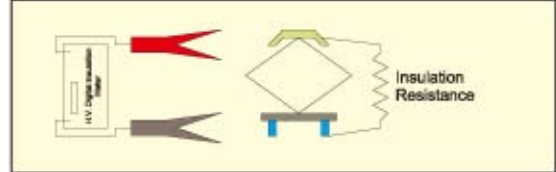
Measuring Insulation between contacts of Circuit Breaker.



Insulator



Insulator on Railway Coach



### Insulating Materials, etc....

The 6213AIN is the best meter for maintenance in its category. It is mainly used for periodic measurements to ensure that personal and equipment are safe.

The new PI and DAR features are useful to schedule maintenance. The user keep records of the PI and DAR results and analyze these results over time.

Maintenance can be done according to analysis and downtime can be scheduled, so that production does not suffer, thus saving production time.

In the past, without the PI and DAR, users could not do **scheduled preventive maintenance** and therefore, breakdown occurred randomly and production was down anytime without any alternative planning.

The 6213AIN is **portable, tough and rugged** and can sustain industrial environment handling, it can test at voltage from as low as 500V up to as high as 10000V, adjustable with a **500V step**.

The Cover contains the test leads and the users manual, all in one unit. Once the lid is open, a quick instruction panel can be read while using the instrument, thus, reducing users mishandling.

TECHNICAL SPECIFICATIONS	6213AIN
Output Voltage Adjustment (500V step)	From 500V To 10kV
Dielectric Absorption Ratio	R@1Min R@30Sec
Polarization Index	R@10Min R@1Min
Battery	8 x 1.5V (C)
Maximum Insulation Resistance (10kV)	600G Ohms
Power Output Limits	1W
Resistance per Voltage	25G/500V
Weight	3.6kg
Maximum Operating Humidity	85%
Live Warning Voltage	>300Vac
Accuracy	5% 1dgt
Calibration	Eeprom
Calibrate Current	YES
Calibrate Voltage (using cal. Resistors)	YES
Protections	Diodes
Over Voltage CLASS III	300V
Over Load between all terminals	300V
Low Battery Indicator	<8Vdc

Photo of display after 10 minutes with 2500V output voltage, 50M from 0 Sec to 40Sec, 100M from 40 Sec to 2 minutes, 500M from 2 minutes to 10 minutes ( until stops)

PERFORMANCE SELECTOR	6213AIN
Dielectric Absorption ratio Calculation	
Polarization Index Calculation	
EnerSave	
Voltage Present Detection	
Auto-Stop	
CrowBar Protection	
Guard Lead Connection	
AL-50 High Performance Test Leads	
Uses only 8 x 1.5V C cell Batteries	
Rugged	
Color Coded Test Leads	
Large LCD mounted at Angle	
Automatic OFF	
Portable	