DIGITAL 5kV / 10kV HIGH VOLTAGE INSULATION TESTER





- Protection class: IP65 (Lid closed)
- 2 Lines × 16 Characters LCD
- Microprocessor-controlled
- Tests insulation resistance up to $1\,T\Omega$ for 4305 IN to $2\,T\Omega$ for 4310 IN
- 4 Insulation test voltages:
 500V, 1000V, 2500V, 5000V for 4305 IN
 1000V, 2500V, 5000V, 10000V for 4310 IN
- AC / DC Voltmeter (30~600V)
- Short-circuit current up to 5mA
- PI (Polarization Index) indication
- DAR (Dielectric Absorption Ratio) indication
- · Auto-ranging on all insulation ranges
- Auto-hold function to freeze reading
- Overload protection
- Adjustable testing duration:
 - 1~30 minutes
- Internal memory for data storage
- Displays testing duration for insulation measurement
- Auto-off function
- 200 measurement results can be saved in memory and recalled on display

STANDARD ELECTRIC WORKS CO., LTD. www.sew.com.tw

5F., NO.105, JHONGCHENG RD., TUCHENG DIST., NEW TAIPEI CITY 23674, TAIWAN (R.O.C.) TEL: 886-2-22681528 FAX: 886-2-22681529 e-mail: sales@sew.com.tw 4305 IN (5kV) 4310 IN (10kV)

SPECIAL FUNCTIONS

Voltmeter

Conventional insulation testers are highly susceptible to damage when testing insulation resistance while voltage is present on the measured object (whether ACV or DCV). To safely prevent damage, this new line of testers has the unique ability to sense voltage on a measured object. If any voltage is sensed, the tester will automatically switch to voltage detection mode and display the voltage finding on the LCD screen. This allows the user to prevent damage caused by attempting to measure insulation resistance while voltage is present.

DAR = Dielectric Absorption Ratio

The Dielectric Absorption Ratio is the ratio of the insulation resistance measured at 1 minute divided by the insulation resistance measured at 30 seconds. Thirty seconds after starting a test, the tester will beep, indicating that the resistance value measured at 30 seconds has been saved. One minute after starting a test, the tester will beep again, indicating that the DAR result has been computed. The display format then changes to display the DAR result.

DAR: 1-min insulation resistance 30-sec insulation resistance

PI = Polarization Index

The Polarization Index is the ratio of the insulation resistance measured at 10 minutes divided by the insulation resistance measured at 1 minute.

One minute after starting a test, the resistance value is saved and the DAR is displayed. The test then continues, and after 10 minutes, the tester will beep again, indicating that the PI result has been computed. The display format changes to display the PI result.

PI: 10-min insulation resistance 1-min insulation resistance

Tests on lower insulation resistance take longer, which tends to deteriorate the test specimen. Thus, higher DAR or PI readings (closer to 1) would indicate a better grade of insulation.



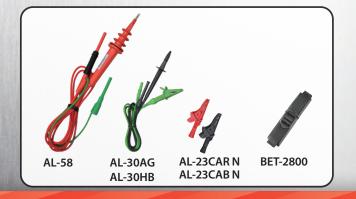
SPECIFICATIONS



4310 IN

	4303 IN	43 10 111
Test voltage	500V, 1000V, 2500V, 5000V	1000V, 2500V, 5000V, 10000V
Insulation resistance	100GΩ / 500V 200GΩ / 1000V 500GΩ / 2500V 1TΩ / 5000V	200GΩ / 1000V 500GΩ / 2500V 1TΩ / 5000V 2TΩ / 10000V
Accuracy	±(5.0%rdg + 5dgt)	
Resolution	1000ΜΩ: 1ΜΩ 10GΩ: 0.01GΩ 100GΩ: 0.1GΩ 1ΤΩ: 1GΩ	1000ΜΩ: 1ΜΩ 10GΩ: 0.01GΩ 100GΩ: 0.1GΩ 1TΩ: 1GΩ 2TΩ: 10GΩ
Short circuit current	up to 5mA	
PI (Polarization Index)	\checkmark	
DAR (Dielectric Absorption Ratio)	√	
Voltmeter	ACV: 30~600V (50/60Hz) / DCV: 30~600V Accuracy: ±(2.0%rdg + 3dgt) Resolution: 1V	
Current measurement	0.5nA ~ 0.55mA (Depending on the insulation resistance)	
Power source	1.5V "C" × 8 Alkaline batteries DC3V (CR2032) × 1	
Dimensions	250(L) × 190(W) × 127(D)mm	
Weight (battery included)	Approx. 2070g (4305 IN) Approx. 2120g (4310 IN)	
Safety standard	IEC / EN 61010-1 CAT IV 600V IEC / EN 61010-2-030 EN 61326-1	
Accessories	Instruction manual Test leads Alligator clips Carry case Batteries Shoulder belt	

4305 IN



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