



EK-C349/C349B High Voltage Insulation Meter



Product Function

Suitable for measuring the resistance value of various insulating materials and the insulation resistance of transformers, motors, cables and electrical equipment.

Insulation Resistance test (IR); Polarization Index test (PI); Dielectric Absorption Ratio test (DAR); AC/DC Voltage test (V).

Product Features

1. Insulation resistance value, test time, and output voltage are displayed on the same screen. Test operation and historical record inquiry are very convenient.
2. Exclusive strong anti-interference technology ensures stable testing capability in scenarios with large distributed capacitance (such as long cables) and in strong electromagnetic interference environments (such as substations).
3. Comprehensive measurement indicators: Insulation Resistance (IR), Polarization Index (PI), Dielectric Absorption Ratio (DAR), AC/DC Voltage (V).
4. Automatic discharge function: After testing, the charged charge of the tested object is released automatically and rapidly, without the need for an external discharge circuit.
5. Large-capacity test record storage: Test records can be browsed and analyzed directly on the instrument. Can automatically store up to 600 sets of real-time test data with test timing.
6. USB communication upload function: Record data can be uploaded to a computer for data storage and statistical analysis.
7. Bluetooth communication function: Test results can be uploaded to a mobile phone.





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Technical Specification

Production	EK-C349	EK-C349B
Power Supply	DC 11.1V, 2600mAh rechargeable lithium battery	
Display Screen	4-digit large LCD display; Display area: 124mm×67mm	
Backlight	Controllable off-white backlight, suitable for dimly lit places	
Rated Voltage	250V, 500V, 1000V, 2500V, 5000V	500V, 1000V, 2500V, 5000V, 10000V
Output Voltage Accuracy	+4%±10V	+4%±10V
Insulation Resistance Range	0.1MΩ~5.00TΩ	0.2MΩ~10.00TΩ
Short-circuit Current	5mA MAX	5mA MAX
Voltage Measurement	Range: AC 750V/DC 1000V; Accuracy: ±1.5%rdg±3dgt	
Polarization Index (PI)	Yes	
Dielectric Absorption Ratio (DAR)	Yes	
Real-time Voltage Reading	Real-time monitoring of test terminal voltage; when voltage is greater than 36V in non-test state, testing is prohibited to protect the instrument and operator safety.	
Measurement Time	Single test time is 10min. During the test, the user can stop manually or it stops automatically after 10min, and the screen displays measurement data.	
Data Storage	Automatically stores 600 sets of test data; stored test records can be displayed and replayed on the instrument.	
Battery Level Indication	Yes; prompts timely charging when battery voltage is low	
Auto Power-off	Automatically powers off after 15 minutes of power-on	
Protection Level	IP65 with lid closed, IP40 with lid open	
Power Consumption	Standby: approx. 40mA (backlight off); Measurement: approx. 100mA (backlight off)	
USB Communication	Yes; test records can be transferred to PC via USB cable.	
Bluetooth Communication	Yes	
Meter Dimensions	280mm×260mm×160mm	
Total Weight	Approx. 5.58kg (including accessories)	
Operating Temperature & Humidity	-10℃~40℃; below 80%RH	
Suitable Safety Standard	IEC61010-1 (CAT III 300V, CAT IV 150V, Pollution Degree 2)	
Accessories	Host: 1pc; High voltage test lead (red): 1pc; High voltage probe replacement needle: 1pc; High voltage probe replacement hook: 1pc; High voltage probe replacement alligator clip: 1pc; Alligator clip test lead (green): 1pc; Alligator clip test lead (black): 1pc; Charger: 1pc; USB communication cable: 1pc; Tool bag: 1pc	

