



EK-C304B Digital Earth Resistance Tester

Product Function

Precision 4-wire, 3-wire, and simple 2-wire method for earth resistance measurement, Soil resistivity measurement, Earth voltage measurement, AC/DC voltage measurement

Product Features

1. Compact and lightweight design, portable and easy to operate.
2. Fast measurement of soil resistivity.
3. Auxiliary ground stake judgement function – displays the resistance value of the auxiliary stakes during testing, avoiding errors caused by excessive auxiliary earth resistance.
4. Auxiliary stake alarm and voltage alarm functions.

Technical Specification

Power Supply	DC 9V (Alkaline dry battery LR6 1.5V × 6)
Display Screen	LCD display area: 58mm × 46mm
Measurement Method	Earth Resistance: Rated current change-pole method (precision 4-wire, 3-wire, simple 2-wire) Soil Resistivity: 4-pole method (Wenner method) AC/DC Voltage: True RMS acquisition
Earth Resistance Measurement	Range: 0.00Ω ~ 30.00kΩ Resolution: 0.01Ω Accuracy: ±2%rdg ± 3dgt
Soil Resistivity Measurement	Range: 0.00Ωm ~ 9999kΩm Resolution: 0.01Ωm Accuracy: ±2%rdg ± 3dgt
AC/DC Voltage Measurement	Range: 0.0V ~ 600V AC/DC Resolution: 0.1V Accuracy: ±2%rdg ± 3dgt
Test Frequency	128Hz / 111Hz / 105Hz / 94Hz (AFC)
Test Current	>20mA (sine wave)
Test Indicator	TESTING LED lights up during earth resistance test
Auxiliary Stake Alarm	R P(S) R C(H) OK indicator light judges whether auxiliary stakes are properly connected, avoiding errors caused by excessive auxiliary earth resistance
Voltage Alarm	When voltage > 36V, LIVE CIRCUIT indicator flashes and buzzer alarms
Data Hold	" HOLD " symbol displayed when data held
Data Storage	300 groups; " FULL " symbol indicates memory full
Data Recall	" READ " symbol displayed during data recall
Measurement Time	Voltage to earth: about 3 times/s Earth resistance, soil resistivity: about 5 s/test
Auto Power Off	Automatically shuts down after 10 minutes of inactivity
Battery Voltage	Low battery symbol blinks when voltage drops to approx. 7.2V, reminding to replace battery
Overload Protection	Earth resistance: between E-P, E-C ports, AC 280V / 3s
Working Current	Backlight: 56mA Max Standby: 20mA Max (backlight off) Measurement: 200mA Max (backlight off)
Meter Dimensions	183mm (L) × 89mm (W) × 56mm (H)
Meter Weight	Approx. 3.34kg (including accessories)
Electromagnetic Compatibility	IEC61010-4-3, RF electromagnetic field ≤ 1V/m
Accessories	Tester: 1 PC; Ground rods: 4 PCS; Test leads: 3 PCS; Basic test lead: 1 PC; LR6 batteries: 6 PCS; Tool bag: 1 PC

