



EK-C320 Double Clamp Earth Resistance Tester

Product Function

Precise 4-wire method, 3-wire method, simple 2-wire method, selection method and double clamp method earth resistance measurement, soil resistivity measurement, earth voltage measurement, grounding lead leakage current measurement, AC current measurement, DC resistance measurement.

Product Features

1. Import FFT (fast fourier transform) technology, AFC (automatic frequency control) technology, with unique anti-interference ability and environment adaptability, with strong retest consistency.
2. The host equipped with large LCD, with white backlight and bar graph indication which can be seen clearly.
3. With Alarm and data storage function.
4. Data upload function, which can upload storage data to computer for saving and printing.



Technical Specification

2/3/4 -Wire Method Measure Earth Resistance (Re)	Range: 0.00Ω~29.99Ω	Resolution: 0.01Ω	Accuracy: ±2%rdg±5dgt
	Range: 30.0Ω~299.9Ω	Resolution: 0.1Ω	Accuracy: ±2%rdg±3dgt
	Range: 300Ω~2999Ω	Resolution: 1Ω	Accuracy: ±2%rdg±3dgt
	Range: 3.00kΩ~30.00kΩ	Resolution: 10Ω	Accuracy: ±4%rdg±3dgt
Selection Method Measure Earth Resistance (R)	Range: 0.00Ω~29.99Ω	Resolution: 0.01Ω	Accuracy: ±2%rdg±5dgt
	Range: 30.0Ω~299.9Ω	Resolution:0.1Ω	Accuracy: ±2%rdg±3dgt
	Range: 300Ω~3000Ω	Resolution: 1Ω	Accuracy: ±2%rdg±3dgt
Double Clamp Method Measure Earth Resistance (Re)	Range: 0.01Ω~0.99Ω	Resolution: 0.01Ω	Accuracy: ±10%rdg±5dgt
	Range: 1.0Ω~29.9Ω	Resolution: 0.1Ω	Accuracy: ±10%rdg±5dgt
	Range: 30Ω~100Ω	Resolution: 1Ω	Accuracy: ±10%rdg±5dgt
Earth Voltage	Range: AC 0.0~100.0V	Resolution: 0.1V	Accuracy: ±2%rdg±3dgt
AC Current	Range: 0.00mA~600.0A	Resolution: 0.01mA	Accuracy:±2%rdg±3dgt
Soil Resistivity (ρ)	Range:0.00Ωm~99.99Ωm	Resolution:0.01Ωm	According to the precision of R (ρ=2πaR, a:1 m-100m, π=3.14)
	Range:100.0Ωm~999.9Ωm	Resolution:0.1Ωm	
	Range:1000Ωm~9999Ωm	Resolution:1Ωm	
	Range:10.00kΩm~99.99kΩm	Resolution:10Ωm	
	Range:100.0kΩm~999.9kΩm	Resolution:100Ωm	
	Range:1000kΩm~9999kΩm	Resolution:1kΩm	
Measurement Method	2/3/4-wire method: change-pole method, measure current >20mA (sine wave) Selection method: change-pole method, measure current >20mA (sine wave) Double clamp method: Non-contact mutual inductance method Soil Resistivity: 4-pole method(Wenner method) Earth Voltage: average rectification (between P(S)-ES) AC current: average rectification (clamp)		
Test Current	> 20mA (sine wave)	Open-Circuit Test Voltage	AC 40V max
Data Storage	2000 groups	Test Voltage Wave	Sine wave





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Data Hold	Data hold function: "HOLD" symbol display	Data Access	Data access function: "READ" symbol display
Overflow Display	Over range overflow function: "OL" symbol display	Test Frequency	128Hz/111Hz/105Hz/94Hz(AFC)
Power Supply	DC 9V (Alkaline dry battery LR14 1.5VX6 PCS)		
Display Screen	4-digital large LCD display, with screen backlight; LCD dimension: 128mm×75mm, Display area: 124mm×67mm		
Automatic Shutdown	15 minutes without any operation after starting up, the tester will shutdown automatically		
Electromagnetic Properties	IEC61326(EMC)		
Clamp Sensor	CT Size: $\phi 50\text{mm}$, clamp current sensor cable length: 2m		
Electrode Distance Range	Can be set 1m~100m		
Working Current	Backlight: 25mA Max; Standby: 25mA Max (Backlight off); Measurement: 150mA Max (Backlight off)		
Test Line	Red 20m, black 20m, yellow 10m, green 10m, red 1.6m, black 1.6m (total 6PCS)		
Auxiliary Grounding Rod	4PCS, $\phi 9\text{mm}\times 230\text{mm}$		
Interference Test	Automatic identify the interference signal, interference voltage higher than 5V will display "NOISE" symbol		
Auxiliary Earth Test	With auxiliary earth resistance test function: $0.00\text{K}\Omega\text{--}30\text{k}\Omega$ ($100\text{R}+\text{rC}<50\text{k}\Omega$, $100\text{R}+\text{rP}<50\text{k}\Omega$)		
Alarm Function	When the measured value exceed alarm setting value, will have "Du--du--du" alarm sound		
Battery Voltage	While battery voltage drop to DC 7.5V, low battery voltage symbol"  " will display, and remind to replace the battery		
Overload Protection	Measure earth resistance: between each interfaces of C(H)-E 、 P(S)-ES , AC 280V/3 seconds		
USB Communication	With USB interface, software monitoring, storage data can be uploaded to computer for saving and printing		
Meter Dimensions	212mm×175mm×85mm		
Meter Weight	5.8kg(include accessories and packing)		
Accessories	Tester:1PCS; Clamp current sensor: 2 PCS; Ground stake: 4PCS; Test line: 6PCS ; USB communication cable: 1PCS; Tool bag :1PCS; LR14 battery: 6PCS		

