

Product Function

Precision 4-wire method, 3-wire method and simple 2-wire method earth resistance measurement, soil resistivity measurement, earth voltage 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 equip with large LCD display, with white backlight and bar graph indication, clear and obvious.
3. Equip with USB interface, data upload function, storage data can upload to computer save and print.
4. Audible and visual alarm and overload protection function.



Technical Specification

Model	ETCR3000B Earth Resistance/ Soil Resistivity Tester		
Earth Resistance (R)	Range:0.00Ω~30.00Ω	Resolution:0.01Ω	Accuracy:±2%rdg±3dgt
	Range:30.0Ω~300.0Ω	Resolution:0.1Ω	Accuracy:±2%rdg±3dgt
	Range:300Ω~3000Ω	Resolution:1Ω	Accuracy:±2%rdg±3dgt
	Range:3.00kΩ~30.00kΩ	Resolution:10Ω	Accuracy:±4%rdg±3dgt
Earth Voltage	Range:0.0~600V AC	Resolution:0.1V	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~9000kΩm	Resolution:1kΩm	
Power Supply	DC 9V (Alkaline dry battery LR14 1.5VX6PCS)		
Measurement Method	Earth Resistance: rated current change-pole method, measurement current 20mA Max Soil Resistivity: Wenner 4-pole measurement; Voltage to earth: Average rectifier		
Test Frequency	128Hz/111Hz/105Hz/94Hz(AFC)		
Test Voltage Wave	Sine wave		
Test Current	>20mA(Sine wave)	Open-circuit Test Voltage	AC 40V max
Data Storage	300 groups	Data Hold	"HOLD" symbol indication
Data Access	"READ" symbol indication	Overflow Indication	Over range overflow "OL" symbol indication
Electrode Distance Range	Can be set 1m~100m		
LCD Dimension	LCD dimension:128mmX75mm; LCD display area: 124mmX67mm		
Tester Dimension	212mm(L)X175mm(W)X85mm(H)		
Weight	4.5kg(include accessories and package)		
Test Line	Red 20m, black 20m, yellow 10m, green 10m, red 1.6m, black 1.6m (total 6PCS)		
Auxiliary Ground Stake	4 PCS: Φ9mmX230mm		
USB Interface	Equip with USB interface, software supervision, storage data can be uploaded to computer, saved and printed; Communication cable length:1.5m		
Alarm Function	The measured value exceeds alarm setting value, "Du-du-du" alarm sound		
Automatic Shutdown	15 minutes without any operation after starting up, the tester will shutdown automatically		
Overload Protection	Earth resistance: between each terminals of C(H)-E、P(S)-ES, AC 280V/3 seconds		
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: $0.00\text{K}\Omega\text{-}30\text{k}\Omega(100\text{R}+\text{rC}<50\text{k}\Omega, 100\text{R}+\text{rP}<50\text{k}\Omega)$
Line Voltage	Measure voltage to earth: AC 600V Max
Battery Voltage	While battery voltage drop to around 7.5V, low battery voltage symbol "  " will display, and remind to replace the battery
Working Current	Standby: around 20mA (Backlight off);Power on: 45mA(backlight off 25mA);Measurement:100mA (Backlight off)
Accessories	Tester:1PC; Ground stake: 4PCS; Test line:4PCS; Simple test line:2PCS; USB special communication cable:1PCS; Tester case:1PCS; LR14 battery: 6PCS