

Earth Resistance Testers

Ground Pile Clamp Earth Resistance Testers

Model: ES3022 ES3022E ES3022F



General Information

Model	ES3022	ES3022E	ES3022F
Versions	Basic version	Soil resistivity version	Bluetooth version
Power supply	DC 3.7 Lithium battery		
Product size	273mm×106mm×53mm		
Product weight	975g (including battery)		
Standard accessories	USB cable, charger, software CD, manual, test leads, tool box, auxiliary ground rod		

Features

Model	ES3022	ES3022E	ES3022F
Clamp resistance range	0.00Ω-1500Ω	0.00Ω-1800Ω	0.00Ω-2000Ω
Leakage current range	0.000mA-40A	0.000mA-50A	0.000mA-60A
Current resolution	1uA	1uA	1uA
3-4-wire method range	0.00Ω-3000Ω	0.00Ω-30kΩ	0.00Ω-30kΩ
Soil resistivity range	---	0.00Ω-9999kΩm	0.00Ω-9999kΩm
Ground voltage range	600V	600V	600V
Bluetooth	---	---	√
Clamp size	68mm	68mm	68mm
TFT color display with backlight	46x29mm	46x29mm	46x29mm
Sampling time	1 time/sec	1 time/sec	1 time/sec
Data storage	500 groups	500 groups	500 groups
USB data upload function	√	√	√
Real-time battery power indicator	√	√	√
Alarm function	√	√	√
Low battery voltage indication	√	√	√
Overload protection	√	√	√

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Specifications

Model	Range	Resolution	Accuracy
Clamp method	0.02Ω-9.99Ω	0.01Ω	±2%rdg±0.1Ω
	10.0Ω-99.9Ω	0.5Ω	±3%rdg±0.5Ω
	100Ω-199Ω	1Ω	±5%rdg±1Ω
	200Ω-299Ω	5Ω	±10%rdg±5Ω
	300-699Ω	10Ω	±15%rdg±10Ω
	700Ω-999Ω	20Ω	±20%rdg±20Ω
	1.00KΩ-1.19KΩ	30Ω	±25%rdg±30Ω
	1.20KΩ-2.00KΩ	50Ω	±35%rdg±50Ω
3 or 4 wire method	0.01Ω-9.99Ω	0.01Ω	±2%rdg±0.2Ω
	10.0Ω-99.9Ω	0.1Ω	±2%rdg±1Ω
	100Ω-999Ω	1Ω	±2% rdg±15Ω
	1.00KΩ-9.99KΩ	0.01KΩ	±2% rdg±0.1KΩ
	10.0KΩ-30.0KΩ	0.1KΩ	±3% rdg±0.5KΩ
AC current	0.100mA -0.999mA	0.001mA	±2.5% rdg±0.1mA
	1.00mA -9.99mA	0.01mA	±2.5% rdg±0.5mA
	10.0mA -99.9mA	0.1mA	±2.5% rdg±1mA
	0.100A-0.999A	0.001A	±2.5% rdg±0.1A
	1.00A-9.99A	0.01A	±2.5% rdg±0.5A
	10.0A-60.0A	0.1A	±2.5% rdg±1A
Ground voltage	1.00V-9.99V	0.01V	±2.5% rdg±0.1V
	10.0V-99.9V	0.1V	±2.5% rdg±1V
	100V-600V	1V	±2.5% rdg±5V
Selection method	0.30Ω-9.99Ω	0.01Ω	±2% rdg±0.3Ω
	10.0Ω-99.9Ω	0.1Ω	±2% rdg±1Ω
	100Ω-999Ω	1Ω	±2.5% rdg±15Ω
	1.00KΩ-3.00KΩ	0.01KΩ	±3% rdg±0.1KΩ
Soil resistivity (ρ)	0.00Ωm ~ 99.99Ωm	0.01Ωm	ρ=2πaR
	100.0Ωm ~ 999.9Ωm	0.1Ωm	
	1000Ωm ~ 9999Ωm	1Ωm	
	10.00kΩm ~ 99.99kΩm	10Ωm	
	100.0kΩm ~ 999.9kΩm	100Ωm	
	1000kΩm ~ 9999kΩm	1kΩm	