

T-3630E

ADVANCED MULTIFUNCTION EARTH GROUND RESISTANCE TESTER

T-3630E advanced multifunction earth ground resistance tester specially design for the measurement of earth resistance, soil resistivity, earth voltage, leakage current of grounding line, AC current, DC resistance. Adopting the latest digital technology, precise 4-pole, 3-pole and simple 2-pole method, selection method, double clamp method to measure grounding resistance, for earth resistance measurement; large caliber clamp design, used to measure the grounding system which adopt large-scale down conductor; can flexibly and precisely measure the value of grounding resistance in every complicated situation like single point grounding, grounding mesh. T-3630E earth resistance tester is not need to disconnect any parallel connection pole when measuring parallel-grounding, and massively improve the convenience when measuring. Importing FFT and AFC technology, with a unique function of anti-interference capability and the ability to adapt to the environment, consistency of repeat testing, to ensure high precision, high stability and reliability for prolonged measure, which is widely used in electric power, telecommunications, meteorology, oil field, construction, lightning protection, industrial electrical equipment and other earth resistance, soil resistivity, earth voltage, AC voltage measurement.

T-3630E multifunction earth ground resistance meter is composed of host machine, monitoring software, testing wires, auxiliary ground pillars, communication wires and others. The large LCD display of host machine is with blue backlight and bar graph indicating that can be seen clearly. At the same time it can store 100 sets of data, fulfilling historical inquiry and online real-time monitoring through monitoring software, dynamic display, and alarm indicator, auto-shut down and with the functions like historical data access, reading, preservation, report forms, printing and so on.

Functions

- 1. Selection method;
- 2. 3-pole measurement;
- 3. Testing Soil resistivity;
- 4. Double clamp method;
- 5. AC voltage measurement;
- 6. Simple 2-pole measurement;
- 7. Precise 4-pole measurement;
- 8. Measure grounding resistance;
- 9. Measurement of earth voltage;
- 10. AC leakage current measurement;





Features

- 1. Accuracy 2%;
- 3. AC voltage 0-100V;
- 5. With gray backlight;
- 7. With IP65 protection;
- 9. Soil Resistivity (p) $0.00\Omega m$ $9999k\Omega m$;

- 2. DC voltage 0-1000V;
- 4. Recorder 500 sets data;
- 6. AC current measurement 0-1000A;
- 8. Earth resistance range 0.01Ω $30.00k\Omega$;

Parameters

Function	Measure grounding resistance, soil resistivity;
	Measurement of earth voltage, AC voltage, leakage
Accuracy	2%
Power Supply	DC 6V(4.5AH battery, continuous standby for 300 hours
Backlight	White screen backlight, suitable for dim places
Measuring Mode	Precise 4-pole measurement, 3-pole measurement, simple 2-pole measurement, selection method, double
	clamp method measure grounding resistance
Measuring Method	2/3/4 pole method: change-pole method, measuremen
	current 20mA Max
	Selection method: change-pole method, measurement
	current 20mA Max
	Double clamp method: disconnect mutual inductance
	method, measurement current 1mA Max
	Soil Resistivity: 4-pole measurement (Wenner method)
	DC resistance: change-pole method
	AC current: mutual inductance method
	Earth Voltage: average rectification(between P(S)-ES)
Measuring Rate	AC current: about 2 times/second
	Voltage to ground: about 2 times/second
	Earth resistance, soil resistivity: about 7 seconds/time
Measuring Times	Over 5000 times (Short-circuit test, interval time should
	be at least 30 seconds)
Earth resistance range	0Ω-30.00ΚΩ
Resolution	$0.01\Omega/0.1\Omega/10\Omega$
Soil resistivity range	$0.00\Omega m$ - $9999k\Omega m$
Resolution	0.01Ω m/ 0.1Ω m/ 1Ω m/ 10Ω m/ 100Ω m/ 1 k Ω m



Electrical parameters - continued	
Earth Voltage Range	0 - 100V; Resolution: 0.01V
Clamp AC current Range	0 - 1000A; Resolution: 0.1mA
Test Voltage Wave	Sine wave
Test Frequency	128Hz
Short-circuit Test Current	AC 20mA max
Open-circuit Test Current	AC 40V max
Electrode Distance Range	set 1m-100m
Backlight	Yes
LCD display	108mm×65mm, 4-bit LCD display, gray screen backlight
Communication	USB Port
Data Storage	500 GROUPS
Alarm Function	Yes
Power Consumption	Standby: about 25mA Max(Backlight shut off)
	Boot 28mA Max(without backlight)
	Measurement: about 120mA Max(Backlight shut off)
Overload Protection	Earth resistance: between each interfaces of C(H)-E, P(S
	ES, AC 280V/3 seconds
nsulation Resistance	Over $20M\Omega$ (between circuit and enclosure it is $500V$)
Withstand voltage	AC 3700V/rms. (Between circuit and enclosure)
Standard	IEC61010-1 (CAT III 300V, CAT IV 150V, Pollution 2),
	IEC61010-031;
	IEC61557-1 (Earth resistance);
	IEC61557-5 (Soil resistivity);
	JJG 366-2004(Grounding resistance meter)
	JJG 1054-2009(Clamp grounding resistance meter)
	IEC61326(EMC)
Mechanical parameters	
Dimensions (L×W×H) (mm)	277.2mm×227.5mm×153mm
Size of clamp(L×W×H) (mm)	101mm×27mm×214mm
Standard Test Wire	4 wires: each for red 15m, black 15m, yellow 10m, and
	green 10m
Simple Test Wire	2 wires: each for red 1.5m and black 1.5m
Auxiliary Grounding Rod	4 wires: Φ 10mm×150mm Over 5000 times (Short-circuit
	test, interval time should be at least 30 seconds)
1000A current clamp(Optional)	2pcs :1 blue-black plug and 1 red-black. 50mm
	diameter,1000:1, 2m



Mechanical parameters - continued		
Weight (kg)	Total weight: 8.05kg (including package) Tester: 2430g (including battery) Testing wires: 940g Auxiliary grounding rods: 935g (4pcs)	
Environmental conditions		
Operating temperature	-10°C to +50°C	
Storage temperature	-40°C to 70°C	
Relative humidity	≤90%RH	