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
Advanced Earthing Resistance Tester

Introduction


Thanks for purchasing the advanced earthing resistance tester designed and manufactured by our company. In order to ensure the proper use of the tester, please read this manual carefully before operating and keep it at a place where it can be easily found.

With the latest technology in a small-sized, robust and easy-to-use instrument, this series of earthing resistance tester is mainly used to test the earthing resistance of transformer, lightning-proof system, high-voltage power tower and telecommunication equipments, etc., providing a perfect solution for earthing-resistance test.

There are three models of this series, including Meter A, Meter B and Meter C, which can meet various requirements of different customers. The features are summarized in the following table.

Test mode	Functions	Meter A	Meter B	Meter C
3 pole & 4 pole earthing-resistance test	Test voltage: AC 20V/48V	√	√	√
	Test frequency: 94Hz/105Hz/111Hz/128Hz/AFC	√	√	94Hz/128Hz
	Earthing-resistance range	0.02Ω ~ 300kΩ	0.1Ω ~ 30kΩ	0.1Ω~20kΩ
Selective mode (3 pole +  / 4 pole+ )	Test voltage: AC 20V/48V	√	√	
	Test frequency: 94Hz/105Hz/111Hz/128Hz/AFC	√	√	
	Earthing-resistance range	0.02Ω~20kΩ	0.1Ω~10kΩ	
Non-auxiliary-polar mode ()	Test voltage: AC48V	√	√	
	Test frequency: 94Hz/105Hz/111Hz/128Hz/AFC	√	√	
	Earthing-resistance range	0.02Ω~150Ω	0.1Ω~150Ω	

Advanced Earthing Resistance Tester

Test mode	Functions	Meter A	Meter B	Meter C
2 pole R~	Test voltage: AC20V	√	√	√
	Test frequency: 94Hz/105Hz/111Hz/128Hz/AFC	√	√	94Hz/128Hz
	Earthing-resistance range	0.02Ω ~ 300kΩ	0.1Ω ~ 30kΩ	0.1Ω~20kΩ
2 pole /4pole R 	Test voltage: DC20V	√	√	
	Earthing-resistance range	0.02Ω ~ 3kΩ	0.1Ω ~ 3kΩ	
Interfering voltage /current/frequency	Interfering voltage: 1~50V DC/AC	√	√	√
	Interfering frequency: 16Hz~400Hz	√	√	√
	Interfering current: 20mA~2A	√	√	
Soil resistivity ρ	Test voltage: AC20V/48V	√	√	√
	Test frequency: 94Hz/105Hz/111Hz/128Hz/AFC	√	√	94Hz/128Hz
	Range: 0.02Ω • m~1000kΩ • m	√	√	√
RK(wire compensation)	Test voltage: AC20V/48V	√	√	√
	Test frequency: 94Hz/105Hz/111Hz/128Hz/AFC	√	√	94Hz/128Hz
	Range:	0.02~30Ω	0.1~30Ω	0.1~30Ω
	Test current	≤ 250 mA	≤ 100 mA	≤ 100 mA
	Data storage	√	√	√
	USB communication	√	√	

Checking Upon Receiving

Upon receiving, please firstly carefully check the tester. Please contact your supplier in case there is any obvious damage or any malfunction during the transaction.

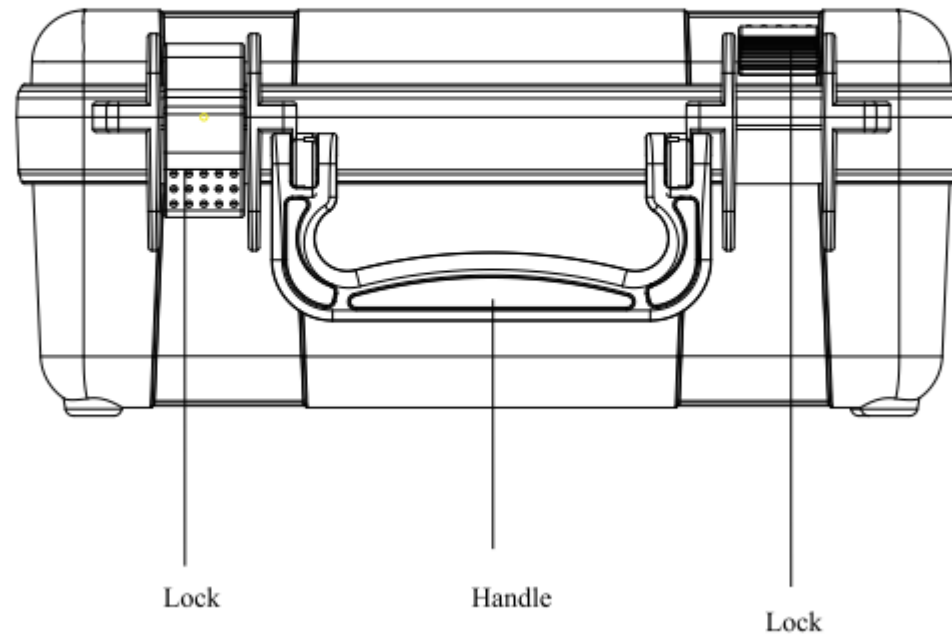


Fig. 1 Appearance

Checking Upon Receiving

To open the case:

1. Use your fingers to pull lock buckle outward.
2. Lift lock buckle upward so as to release two buckles, and open the outer case.

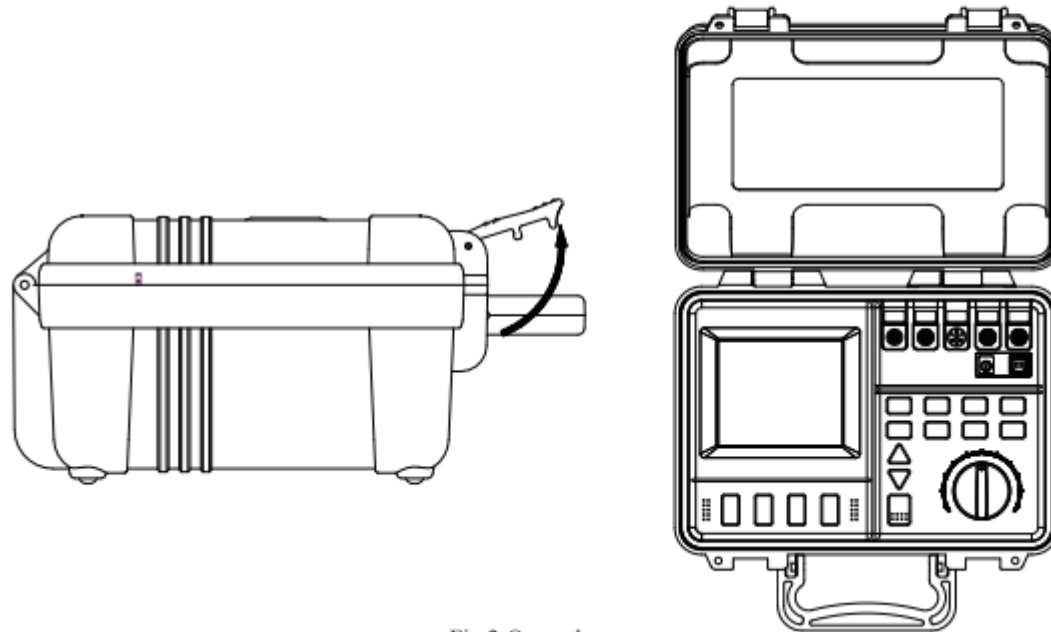

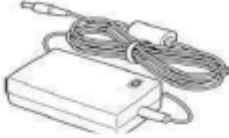


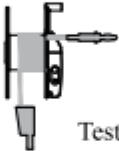









Fig.2 Open the case

Advanced Earthing Resistance Tester

Accessories

 <p>Clip ×4</p>	 <p>Charger(optional)</p>	 <p>USB cable</p>
 <p>User manual</p>	 <p>Test wire ×4</p>	 <p>Voltage clamp cable</p>
 <p>Alkaline battery ×6</p>	 <p>Voltage Transformer φ 51mm</p>	 <p>Current clamp cable</p>
 <p>Rechargeable Ni-MH battery (Optional)</p>	 <p>Voltage Transformer φ 51mm</p>	 <p>Probe</p>

Safety Instructions

Safety Instructions








Danger

The design of this instrument meets IEC61010 requirement, and tests in all aspects have been performed before packaging and shipment. Nevertheless, improper handling during operating may still cause damages to the tester and accidents in which physical injury or even death might occur. Please read this manual carefully before usage. Our company is not liable for any physical injury or accident that is caused by reasons other than flaws of the testing instrument itself.

Safety Symbol Descriptions

Safety Instructions

	Important information which the user shall read before use.
	Indication of possible dangerous voltage on the terminal.
	Indicating that this is an equipment with enhanced insulation.
	DC Signal
	AC Signal

Safety Instructions

Points of Attention During Operation

In order to ensure operation safety and operate with the optimal performance, please observe the following points of attention.

Initial checking

For first-time operation, please check the tester to ensure there is no damage occurred during storage and shipment, no any abnormal function with the tester. Before operating, please make sure the insulation of testing clamps, the cables are flawless and no conducting part is exposed. Otherwise, using the meter will cause electrical damage and injury.

Working environment

1. Ambient temperature and humidity: $0\sim 40\text{ }^{\circ}\text{C}$ ($32\sim 104\text{ }^{\circ}\text{F}$) $< 80\%$ RH (without condensation)

2. Range of temperature and humidity for guaranteed precision:

Earthing resistance measurements: $0\sim 28\text{ }^{\circ}\text{C}$ ($32\sim 82\text{ }^{\circ}\text{F}$) $< 80\%$ RH (without condensation)

Voltage measurements: $23\pm 5\text{ }^{\circ}\text{C}$ ($73\pm 9\text{ }^{\circ}\text{F}$) $< 80\%$ RH (without condensation)

Operation

In order to avoid malfunctions and accidents, please do not subject the meter to the following situations: