FR3010 Digital Ground Resistance Tester (Simple)





I. Product Introduction

FR3010 digital grounding resistance tester, also name the three-wire grounding resistance tester, grounding resistance meter, etc., it is a commonly used meter for measuring grounding resistance. It uses a large LCD gray screen backlight display and microprocessor technology to meet the requirements of two-wire and three-wire test resistance. It is a new generation of grounding measurement instrument that replaces traditional rocking table measurements. Suitable for telecommunications, electricity, meteorology, computer rooms, oil fields, power distribution lines, iron tower transmission lines, gas stations, factory grounding networks, lightning rods and so on. Instrument testing is precise, fast, simple, stable and reliable

FR3010 digital grounding resistance tester is controlled by a microprocessor, it's large LCD gray screen display resistance value at a glance .It can store 500 sets of data at the same time, resistance measurement range $0.01\Omega \sim 3000\Omega$, grounding voltage range: $0 \sim 600V$, with the value of maintaining and alarm tips and other functions.

Ground resistance Range	0.01Ω -3000 Ω ; Accuracy: $\pm 1.5\%$ rdg ± 3 dgt	
Ground resistance resolution	0.01 Ω	
Ground voltage Range	0.01V-600V AC ; Accuracy: \pm 1.5%rdg \pm 3dgt	
Ground voltage resolution	0.01V	
Base Condition	23C±5°C, below 75% rh (Auxiliary grounding resistance 100Ω±5%, ground	
	voltage<10V)	
Function	Ground resistance test, ground voltage test, low value resistance test	
Power Supply	1.5V (LR14) Alkaline Battery 6 Section	
Backlight	Controllable gray screen backlight, suitable for use in dim places	
Measurement Mode	Precise three-wire measurement, simple two-wire measurement	
Measurement Method	Grounding resistance: rated current change pole method, 128Hz; ground voltage: average value rectification	
Test current	>20mA (sine wave)	
Wire Resistance Check	Avoiding the errors caused by the test line not being fully inserted into the instrument interface or being in poor contact or replaced the extended test line by the user, to make the ground resistance measurement more accurate	
Display mode	4-bit large LCD display, gray screen backlight	
Measure indication	LED flashing indicator during measurement, LCD countdown display	

II. Technical Specification

	400
LCD Dimension	108mm×65mm
Meter Dimension	L/W/H: 240mm×188mmx85mm
Test Line Length	3 strips: Red 15m, Yellow 10m, Green 5m each 1 strip
Simple Test Line	2 strips: yellow 1.5m, green 1.5m each 1 strip
Auxiliary Grounding Rod	2 roots
Measure Time	Ground voltage: about 3times/second; Grounding resistance: about 5
	times/second
Line Voltage	Measure ground voltage: below AC 600V
Data Storage	500 groups, flashing "FULL" symbol indicates that the storage is full
Data Review	"MR" symbol indication when reviewing data
Overflow Display	Exceed measurement range overflow function: "OL " symbol display
Alarm Function	Alarm when the measured value exceeds the alarm setting value
Battery Voltage	Insufficient battery voltage, showing low battery symbol
Automatic shut-down	"APO" instruction, automatic shutdown after 15 minutes boot
Power Consumption	Standby: 40 mA Max (backlight off),
	turn on backlight: 43 mA Max,
	measure: 120 mA Max (backlight off)
Weight	Instrument: 1230g (including battery),
	test line: 610g (including simple test line),
	auxiliary grounding rod 360g (2 roots),
	instrument bag: 271g
Working Temperature and	-10°C~40C; below 80% rh
Humidity	
Storage Temperature and	-20°C~60C; below 70% rh
Humidity	
Overload Protection	Grounding resistance: AC280V/3 seconds between E-H and E-S ports
Insulation Resistance	Above 10MQ (500V between circuit and case)
Pressure Resistance	AC 3700V/rms(between circuit and outside)
Electromagnetic Properties	EC61010-4-3, radio frequency electromagnetic field ≤1V/m
Suitable for Safety Regulations	IEC61010-1, IEC1010-2-31, IEC61557-1, 5、 IEC60529 (IP54), pollution degree 2、
	CAT III 300V

III、Accessories

Instrument	1PC
Instrument bag	1PC
Auxiliary rob	2PCS
Test line	3PCS (red 15m, yellow 10m, green 5m each one)
Simple test line	2PCS(yellow 1.5m, green 1.5m each one)
Battery	1.5V alkaline battery 6 sections
Charger	1PC
Manual, certificate	1SET



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