Clamp Leaker Ground Resistance Tester

Ground Resistance Tester



6412

140

6412⁺



Technical data

Basic Function		6412/6412 ⁺	
Measure	Measuring range	Resolution	Basic accuracy
mode			
	0.010-0.099Ω	0.001Ω	±(1%+0.01Ω)
	0.10-0.99Ω	0.01Ω	±(1.5%+0.01Ω)
	1.0 -49.9Ω	0.1Ω	±(1%+0.1Ω)
Resistance	50.0-99.5Ω	0.5 Ω	±(2%+0.5Ω)
	100-199Ω	1Ω	±(3%+1Ω)
	200-395Ω	5Ω	±(6%+5Ω)
	400-590Ω	10Ω	±(10%+10Ω)
	600-1300Ω	20Ω	±(20%+20Ω)
	0-80mA	0.05mA	±(2.5%+1mA)
Current Only for 6412	80-650mA	0.5mA	±(2.5%+2mA)
	650mA-4A	5mA	±(2.5%+10mA)
	4-30A	10mA	±(2.5%+20mA)

Basic Function 140 Clamp leaker				p leaker
Range	30mA~300mA 30A/300A		Range	Accuracy
Sampling rate	Approx.2times/s	Measuremment	0.00mA~9.99mA	±1.2%±5dgt
Resolution	0.01mA	accuracy	10.0mA~300.0mA	±1.5%±5dgt
Measuring range	0.00~300.0A(50/60Hz)	(below 231, 70%RH)	0.00A~9.99A	±1.2%±5dgt
Test way	CT pincer points		10.0A~99.9A	±1.5%±5dgt
Power	DC 3V Button-type battery LR-44*2 or SR-44*2		100A~199.9A	±2%±5dgt
Rate Power	Approx.5mW		200.0A~300.0A	±4%±5dgt

Special Function	6412	6412 ⁺	140
Low battery indication	4	J	√
Date hold/storage	√	1	√
Auto power off	√	1	1
Relative humidity	10%~90%	10%~90%	
Working environment	-10℃~55℃	-10℃~55℃	0~40℃
Outer magnetic field	<40A/m	<40A/m	
Outer electric field	<1V/m	<1V/m	
Unit measuring time	1s	1s	
Resistance measuring frequency	>1KHz	>1KHz	
Highest resolution of Resistance measuring	0.001 Ω	0.001Ω	
Frequency of measured current	50Hz sine		
Storage measuring data	99 group	99 group	60 group
Setting range of resistance critical value alarm	1~199 Ω	1~199 Ω	
Setting range of current critical value alarm	1~499mA	1~499mA	
Protection scale	Double insulated	Double insulated	
Operation way	Auto range	Auto range	Auto range
Clamp size	32mm	32mm	40mm
Power	6V(4×1.5V)	6V(4×1.5V)	DC 3V

Technical Specifi	ications 140D	
CT Size	16mm×18mm	
Meter Size	215mm×61mm×32mm	
Function	Measurement of car dark current, leakage current and other	
runction	AC/DC current, leakage current	
Power Supply	Zn-Mn dry battery 6F22 9V	
Test Mode	Clamp CT, Non-contact measurement	
Range	0mA~60.0A AC/DC	
Resolution	1mA AC/DC	
Working	40% - E0% halam 90% sh	
Temperature	-10°C ~ 50°C,below 80%rh	
Limit Temperature	-10°C~0°C and 40°C~50°C, the maximum increase in error is	

AC3700V/rms (between the core and outside shell)

IEC1010-1、IEC1010-2-032、pollution, etc 2、CAT III(600V)

-10°C ~60°C,below 70%rh

140D

Accuracy		
(23℃±3℃,	±2%rdg±5dgt(23°C±5°C, below 75%rh)	
below 70%RH)		
Display Mode	4digits LCD display	
LCD Dimension	35mm×21.5mm; display area: 32mm×15mm	
Sampling Rate	about 2 times/s	
Frequency	AC 45Hz ~ 400Hz	
Polar Indication	Automatic identification, display "-" symbol	
Wire Position	The tested wire in the center of the clamp jaw	
Range Shift	Automatically	
Line Voltage	Line measurement below DC 600V	
RS232 Interface	With RS232 interface, storage data can be uploaded to computer,	
K3232 IIIterrace	software monitoring	
Communication	Baud rate:9600, data bit 8, stop bit 1, check bit NONE	
Parameter		
Data Storage	99units, display FULL symbol indicate storage full	
Data Hold	Data hold function: DH symbol display	
S Overflow display	Exceed measure range overflow function: OL symbol display	
Auto Shut Down	5 Minutes after power on, the meter shuts down automatically	
Auto Silut Dowii	without any operation to reduce battery consumption	
Battery Voltage	While battery voltage decreases to around 7.2V, will display low	
Battery Voltage	battery voltage symbol* ** and remind to replace the battery	
Meter Weight	210g	
Working Current	20mA	

Technical data

Bench top	6415A Box top	
AC current, leakage current measurement		
Two-three-four-wire grounding resistan	ce measurement: 0.00Ω~30.00kΩ	
Grounding voltage: AC0.0V~100.0V		
<u> </u>		
Precision four-wire, three-wire method,	simple two-wire, selection	
method, double- clamp method to mea	sure grounding resistance	
Two-three-four-wire method measurement: pole-changing		
method, test current 20mA Max		
Selection method measurement: pole changing method, test current 20mA Ma.		
Double clamp method: non-contact mu	tual inductance	
measurement method, test current 1m/	A Max	
Soil resistivity: quadrupole method (We	nner method)	
DC resistance: pole changing method		
AC current: average value rectification (clamp)		
Grounding voltage average value rectification (between P(S)-ES interface)		
Controllable white screen backlight, suitable for use in dark places		
4-digit large LCD display with backlight		
LED flashing indication during measurement, LCD countdown display		
AC current: about 2 times/second; grounding voltage: about 2 times/second;		
grounding resistance: about 7 seconds/time		
more than 5000 times (short circuit test, test once, stop for 30 seconds and test again)		
measurement below AC 600V		
With RS232 interface, the stored data can be uploaded to the computer through the software		
		2000 groups
Measuring ground resistance: AC 280V/3 seconds between each port of C(H)-E, P(S)-ES		
above 20MΩ (500V between circuit and case)		
AC 3700V/rms (between circuit and case	se)	
zinc-manganese dry battery ,	DC 8.4V (rechargeable battery,	
continuous standby for 300 hours)	continuous standby for 300 hours)	
Meter: 1; Grounding probe: 4; Test lead: 4; Simple test lead: 2; USB communication cable: 1; CD: 1; Meter bag; 1; Special charger: 1		
red 20m, black 20m, yellow 10m, green 10m each		
-		
,		
blue and black plugs, red and black plugs each		
185mm×115mm×43mm		
DC 7.4V 2600mAh rechargeable lithium battery		
2m		
128mm×75mm; display area: 124mm×67mm		
	2560a	
1232g 215mm×190mm×95mm	2560g 280mm×260mm×160mm	
	Grounding resistance, soil resistivity, D AC current, leakage current measurem Two-three-four-wire grounding resistan Grounding resistance measurement by Double-clamp method grounding resistance Grounding resistance measurement by Double-clamp method grounding resist Grounding voltage; AC0.0V ~ 100.0V ~ Soil resistivity; 0.00Ωm ~ 9000kΩm AC current: AC 0.00mA ~ 600.0A Precision four-wire, three-wire method, method, double- clamp method to mea. Two-three-four-wire method measurementhod, test current 20mA Max Selection method measurement pole of Double damp method inon-contact mu measurement method, test current 1 mc Soil resistivity; quadrupole method (We DC resistance: pole changing method AC current: average value rectification Grounding voltage average value rectification Grounding resistance: about 7 seconds more than 5000 times (short circuit test stop for 30 seconds and test again) measurement below AC 600V With RS232 interface, the stored data the software 2000 groups Measuring ground resistance: AC 280\timesabove 20MG (500V between circuit and car 2000 groups Measuring ground resistance: AC 280\timesabove 20MG (500V between circuit and car 2000 groups Measuring ground resistance: AC 280\timesabove 20MG (500V between circuit and car 2000 groups Measuring ground resistance: AC 280\timesabove 20MG (500V between circuit and car 2000 groups Measuring ground resistance: AC 280\timesabove 20MG (500V between circuit and car 2000 groups Measuring ground resistance in the first leac communication cable: 1; CD: 1; Meter I red 20m, black 20m, yellow 10m, green 4 plumm ×150mm red 1.6m, black 1.6m each RS232 communication line 1, length 1. blue and black plugs, red and black plug 48mm DC 7.4V 2600mAh rechargeable lithiun D	



6415



6415A



