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SHENZHEN MEIRUIKE ELECTRONIC TECHNOLOGY CO.,LTD



Meiruike Instruction Manual

RK 149 Series High Voltage Tester

SHENZHEN MEIRUIKE ELECTRONIC TECHNOLOGY CO.,LTD.

Address : Room 1201, Building 6 B7, Lilang International
Jewelry Industrial Park, No. 31 Buran Road, Xia Lilang
Community, Nanwan Street, Longgang District, Shenzhen

Tel: 86-755-83987768
86-755-82736668
[Http://www.chinarek.com](http://www.chinarek.com)

SHENZHEN MEIRUIKE ELECTRONIC TECHNOLOGY CO.,LTD.

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I OVERVIEW

RK149 Series High Voltage Tester is a type of a high precision hi-voltage testing meter which can display 4 1/2 digits and have been used at the hi-voltage measurement fields about AC and DC .

II、Main technical characteristics

1. Test range

RK149-10A type: AC、DC (0.500~10.000)KV。

RK149-20A type: AC、DC (1.000~19.999)KV。

RK149-30A type: AC、DC (1.000~20.000)KV。

(20.000~30.000)KV。

RK149-40A type: AC、DC (1.000~19.999)KV。

(20.000~40.000)KV。

RK149-50A type: AC、DC (1.000~19.999)KV；

(20.000~50.000)KV。

2. Accuracy : $\pm 1\%$ ± 5 digits

3. Voltage resolution: ≤ 20 kV is 1V, > 20 kV is 10V.

4. Impedance input: 1000M Ω

5. Voltage display: 4 1/2 LED display

6. Work environment:

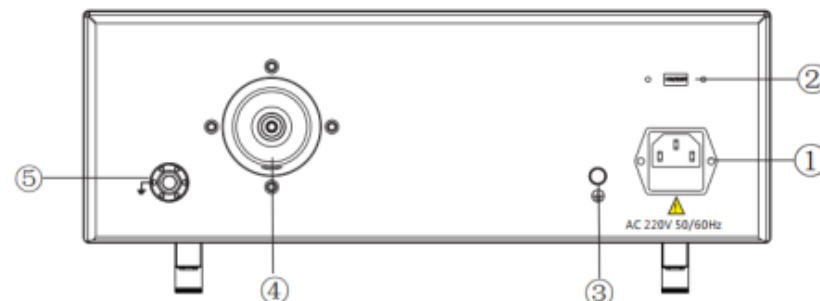
Temperature: 0~40℃;

Humidity: $\leq 75\%$ RH;

Power input: 110V/220VAC 50/60Hz;

Power consumption: 10W.

7. External dimensions: RK149-10A/20A/30A



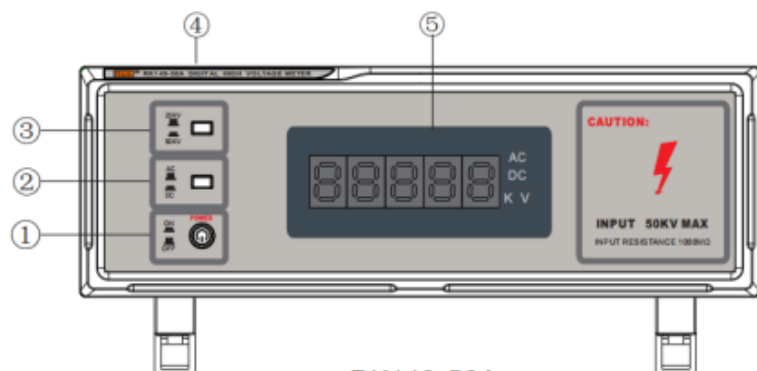
RK149-40A/50A后板

VII、Annex

Product Packing List

Name of product: Digital Hi-voltage Tester

Item	Full name	Quantity
1	Power Line	1
2	Hi-voltage Testing wire	1
3	Ground wire	1
4	Manual	1
5	Certification	1
6	Tester	1



RK149-50A

320mm*270mm*115mm (L*W*H)

RK149-40A/50A

370mm*355mm*130mm (L*W*H)

8. Weight: RK149-10A/20A/30A:4.3Kg

RK149-40A/50A:6.2Kg.

III、Working principle

The RK149 series digital high voltage meter adopts a large scale A/D conversion circuit ICL7135 with high input impedance, high stability, low drift, self calibration, double integral, and a stable digital display system, which is composed of four half display meters, and automatic polarity conversion.

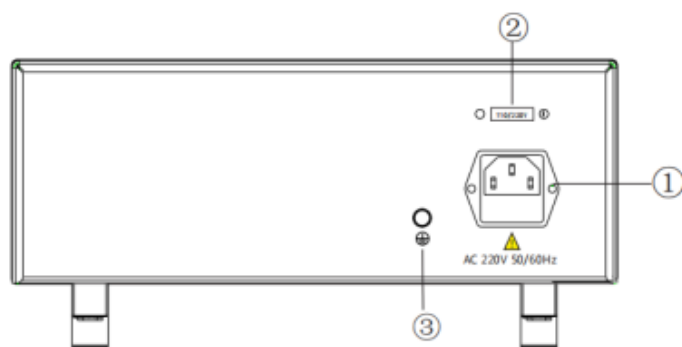
IV、Use method

1. Turn on the power, turn on the power switch and warm up for ten minutes.
2. Select appropriate AC / DC switch.
3. Connect the high-voltage output end and grounding end of the tested part with the high-voltage test input end and grounding end of the machine, then the test can be carried out.

V、Panel introduction

VI. Backboard introduction

- ① AC socket with fuse
- ② 110V / 220V transfer switch
- ③ Grounding post



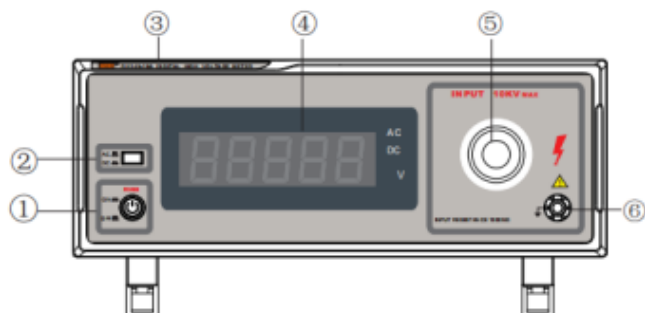
RK149-10A/20A/30A后板

- ① AC socket with fuse
- ② 110V / 220V transfer switch
- ③ Ground stud
- ④ High pressure input seat
- ⑤ Grounding column

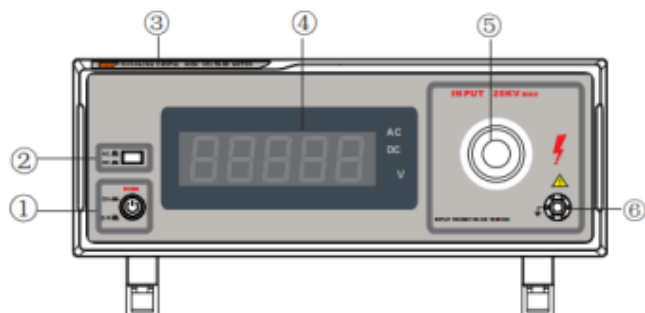
① Power switch. AC/DC switch.

③ Bar PC. ④ LED digital display.

⑤ High pressure input seat. ⑥ Ground post.



RK149-10A



RK149-20A

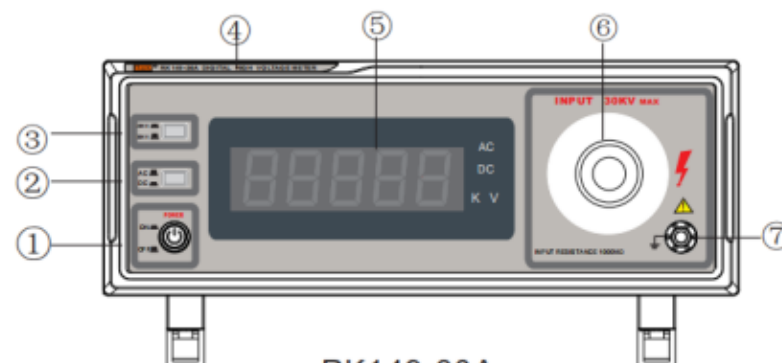
① Power switch ② AC / DC transfer switch

③ 20kV / 30KV transfer switch ④ horizontal bar PC

⑤ LED digital display

⑥ High voltage input base

⑦ Grounding post



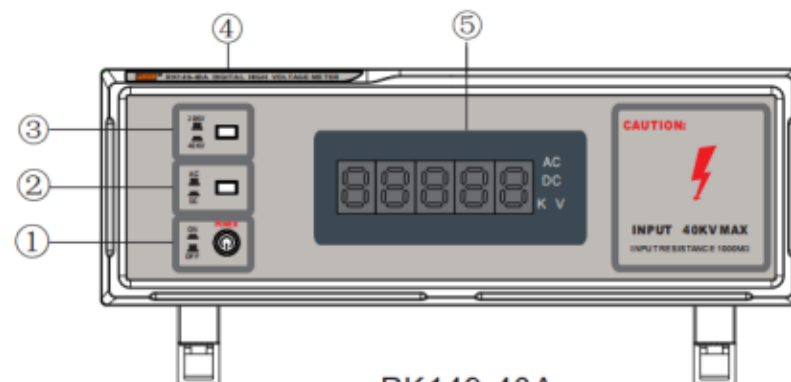
RK149-30A

① Power switch ② AC / DC transfer switch

③ 20kV / 40kV transfer switch

④ Bar PC

⑤ LED digital display



RK149-40A

① Power switch ② AC / DC transfer switch

③ 20kV / 50kV transfer switch

④ Bar PC

⑤ LED digital display