

Sunrise15010 type sensitive ammeter instruction manual 1, use and scope of use:  
15010 type sensitive ammeter is suitable for ordinary middle schools, secondary schools.

When conducting experiments or student grading experiments, measuring the small current and small potential difference in the DC circuit, such as the galvanometer used as the lower Whiston bridge, thermocouple, electromagnetic induction, photoelectric effect and other experiments to expand the ammeter quantity.

Second, the main specifications and technical parameters: this product is beautiful in appearance, reasonable in structure, economic and durable, with the advantages of easy to use, high sensitivity, clear indication, etc., welcomed by teachers and students.

1. The indicator panel is at a 45 degree Angle with the horizontal plane.
- 2, the ambient temperature is  $23^{\circ}\text{C} \pm 2^{\circ}\text{C}$ , the relative humidity is 40%-60%.
- 3, Measuring range:  $-300\mu\text{A}$ -0- $300\mu\text{A}$ .
- 4, instrument accuracy level: 25.

That is, under the specified conditions of use, the measurement error of the instrument does not exceed  $\pm 2.5\%$  of the full scale.

5, overall size:  $133\text{mm} \times 97\text{mm} \times 100\text{mm}$ 6, the defense level of external magnetic field is III.

7, galvanometer voltage drop G.

It is  $30 \pm 3\text{mV}$  and G1 is  $750 \pm 75\text{mV}$ .

8, A1 level instrument.

9, the symbol on the galvanometer panel is described as follows:  $\angle$  instrument dial and horizontal plane into a  $45^{\circ}$  Angle.

n Magnetic electric instrument.

G meter is a sensitive galvanometer.

The insulation strength test voltage is 500V. Three, the working principle and the

main structure: 15010 type sensitive ammeter is mainly composed of the case and the watch head, the case is equipped with three terminals, each terminal has "-", "G".

, "G1" three connection signs.

The meter structure is magnetoelectric, composed of permanent magnetic steel, pole boots, soft iron core, etc., in the magnetic field is installed with a coil, the coil can be rotated around the central axis, the coil axis is welded at both ends of the spring, one end is equipped with a pointer, the bracket is fixed on the microamperage scale panel, and the adjusting arm.

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4, use and conduct: 1, before use should first check whether the pointer is aligned with zero, if there is a deviation, use the screwdriver to turn the zero button to adjust the pointer to zero.

2, the galvanometer in series in the circuit, with the "G" terminal higher potential of the end, the circuit should be disconnected first, to be checked in detail before the switch, found that the pointer does not deflect or there is a south phenomenon, should be cut off the power to check the cause.

3, when measuring the small current in the circuit, can be in series in the circuit to be measured, from the galvanometer pointer is deflected to determine whether there is current in the circuit and determine the polarity of the power supply, such as the pointer to the right deflection, it indicates that the direction of the current in the circuit in the galvanometer from the positive terminal flow, the opposite.

4, check whether there is a small potential difference between two points of the

electrical appliance, can be directly connected to the two points to be measured in the circuit, see whether the pointer is deflected to determine whether there is a potential difference between two points, according to the direction of deflection, to determine the level of potential between two points.

5, whether used to detect current and potential difference, this galvanometer can not accurately measure the current strength or potential difference between two points, but only as a galvanometer, in the electromagnetic induction experiment can be used G.

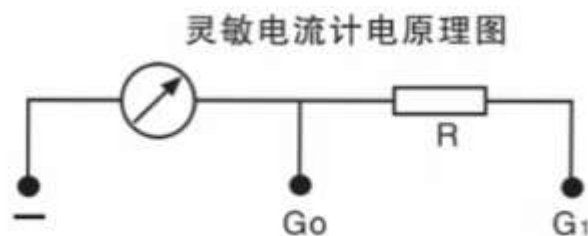
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In the Whiston bridge experiment, G1 was used first, and G was used after the initial adjustment.

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Maintenance and precautions: to keep the instrument clean, not be affected by corrosive gas intrusion and nearby strong magnetic field.

Do not knock and violent vibration, this product has been technical verification before delivery, please do not disassemble.



Sensitive galvanometer electrical schematic RGoG1 Factory Address: No.135 Yandang East Road, Economic and Technological Development Zone, Wenzhou City, Zhejiang Province Tel: 0577-86532822 Fax:

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