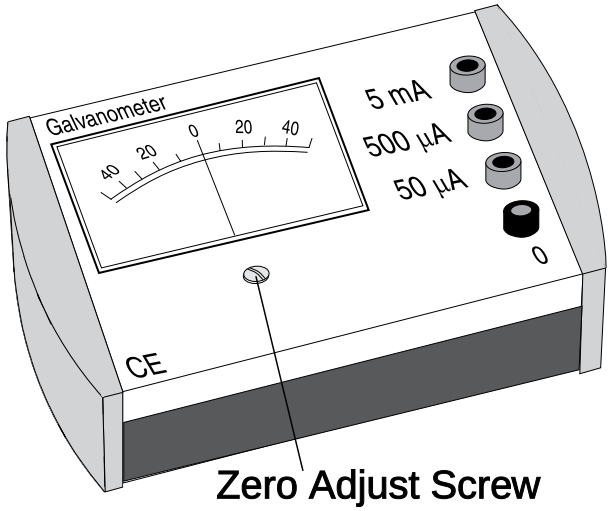
Heavy Duty Galvanometer (SF-9500A)

Introduction

The Heavy Duty Galvanometer is a sturdy but sensitive instrument designed specifically for student experiments. The device includes three ranges and has a center-zero meter that ensures the user can easily determine polarity.

Applications for the Galvanometer include null-current measurements such as measuring resistance in a Wheatstone bridge. In such cases, it is easy to balance the current by using the 5 mA (milliampere) range and then stepping down through the lower current ranges to determine the point of zero current with high accuracy.



Operation

Zero the meter

1. Place the meter in the position (vertical or horizontal) in which it will be used.
2. Disconnect the meter from the circuit.
3. Using a small flat-blade screwdriver, turn the Zero Adjust Screw until the meter needle is aligned with 0 on the scale.

Collect data

Connect the circuit to the galvanometer in series, so that current flows into a red input terminal with a current rating greater than the expected current and out of the black negative terminal. Once the connections are made, read the current on the meter.

NOTE: As a rule of thumb, begin with the 5 mA range and step down to lower ranges as required.

The current ranges displayed beside the input connectors refer to the current value that will give a full-scale meter deflection. For example, a meter reading of +40 in the 5 mA range indicates a current of 4 mA. A reading of -30 in the same range indicates that 3 mA of current is flowing in the opposite direction.

Technical support

Need more help? Our knowledgeable and friendly Technical Support staff is ready to answer your questions or walk you through any issues.

Chat	pasco.com
Phone	1-800-772-8700 x1004 (USA) +1 916 462 8384 (outside USA)
Email	support@pasco.com

Regulatory information

Limited warranty

For a description of the product warranty, see the Warranty and Returns page at www.pasco.com/legal.

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Product end-of-life disposal

This electronic product is subject to disposal and recycling regulations that vary by country and region. It is your responsibility to recycle your electronic equipment per your local environmental laws and regulations to ensure that it will be recycled in a manner that protects human health and the environment. To find out where you can drop off your waste equipment for recycling, please contact your local waste recycle or disposal service, or the place where you purchased the product. The European Union WEEE (Waste Electronic and Electrical Equipment) symbol on the product or its packaging indicates that this product must not be disposed of in a standard waste container.

CE statement

This device has been tested and found to comply with the essential requirements and other relevant provisions of the applicable EU Directives.