

**Product Name :**  
Portable Wheatstone Bridge

**Product Code :**  
EELELABT10020



### Description :

Portable Wheatstone Bridge

### Technical Specification :

This bridge is fully portable with a built in sensitive Galvanometer and a dry battery. The bridge is extremely useful for resistance measurements with a fair degree of precision.

Series Arm :

- There are 4 decades of  $10 \times 1$ ,  $10 \times 10$ ,  $10 \times 100$  and  $10 \times 1000$  ohms.

Range Multiplier :

- A single rotary switch furnishes 7 range multipliers of  $\times 1000$ ,  $\times 100$ ,  $\times 10$ ,  $\times 1$ ,  $\times 0.1$ ,  $0.01$  and  $0.001$ .

Range of Measurement :

- Ohm to 1.11 mega ohms.

Battery :

- A dry battery of 4.5 volts is built-in provision is there for using external battery for measuring high resistances.

Galvanometer :

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The bridge can be supplied with types of built-in galvanometer. Student galvanometer of M.O. 65 model, and of sensitivity 10 microamperes/mm. Taut suspension galvanometer of coil resistance 100 ohms and sensitivity of 0-5 microampere per mm and with a mechanical coil locking device and a zero adjuster. In both models, external more sensitive galvanometer such as our spot reflecting galvanometer as above can be used for greater discrimination and accurate null point.

Resistance Coil :

- Manganin coil which are non inductivity wound, aged and properly varnished are used.

Push Button :

- Two push buttons for battery and galvanometer are provided.

Accuracy :

- Both series and ratio coils are adjusted to an accuracy of better than 0.05%
- Overall Accuracy of measurements is better than + 0.1%
- With Students galvanometer of M.O. 65 model
- With Taut suspension galvanometer.

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