

FEATURES

- General** : This bridge is very suitable for the use of wires and cables manufactures. It is being extensively used for finding the resistance of transformer windings, contact resistance of relays etc.
- Standard Resistance** : There are 10 coils of 0.01 Ohm each arranged on a rotary dial plus a circular slidewire of total resistance 0.01 Ohm and 500 sub-division. Each sub-division is equal to 0.00002 Ohms on the normal range.
- Multiplying Ratio** : A rotary switch furnishes 5 multiplying ratios of x 100, x 10, x 1, x 0.1 and x 0.01
- Range of Measurement** : The bridge has a range of 0.2 micro ohm to 11 ohms.

Range	Multiplying Factor	Least Count
2 Milliohms to 11 ohms	x 100	2 Milliohms
0.2 Milliohms to 1.1 ohms	x 10	0.2 Milliohms
20 Micro ohms to 11 ohms	x 1	20 Micro ohms
2 Micro ohms to .011 ohms	x 0.1	2 Micro ohms
0.2 Micro ohms to 0.0011 ohms	x .01	0.2 Micro ohms

- Max. Current** : 10 amperes intermittent and 5 amperes continuous
- Resistance Coils** : Manganin coils are used
- Terminals** : Terminals for battery, galvanometer, current and potential terminals are all provided on the BACKELITE panel enclosed in a teak wood box.
- Current Reversing Switch** : A battery reversing switch is provided to reverse the current in the bridge to eliminate thermal effects.
- Accuracy** : $\pm 0.05 \pm 1$ small division of the slidewire.

COMPONENTS TO BE USED

Oxford Spot Reflecting Galvanometer Cat. No. 1701

It is a sensitive null detector to be used with the Kelvin Double Bridge. It is mains operated instrument with a built-in lamp and scale arrangement. The moving coil can be locked or set free accordingly as the instrument is in transit or in use.

There is a zero adjusting knob also.

A universal sensitivity reducing shunt is also built in.

Specification

- Coil Resistance** : 100 ohms approx.
- Sensitivity** : 0.05 microamperes per mm or 5 microvolts per mm
- CDR** : 800 ohms approx.
- Time Period** : 2 seconds approx.

Oxford Adjustable heavy Duty D.C. Current Source

It is a useful and economical substitute for a D.C. battery. The unit is mains operated and can deliver a continuously adjustable D.C. current of 0 to 10 amperes maximum.

The unit consists of a variac a step down transformer, a bridge rectifier, filter circuit and an ammeter of 0 to 10 amperes to read current.



Two heavy brass terminals are provided for output.

- Input Voltage** : 230 Volts A.C. Mains at 50 Hz
- D.C. Output** : Approximately 0 to 10V continuously adjustable to give a variable current of 0 to 10 amperes depending upon external load.

Conductivity Attachment

It is an arrangement to hold specimens in the form of wires, rods, strips etc. Separate current and potential terminals are provided. Distance between potential points is 500 mms. It can hold specimens of any size between 1/2" dia to 42 S.W.G. wires.

*Technical Specifications & Appearance are subject to change without prior notice