



## LR-2045

### Micro Ohm Meter

LR-2045 intends to replace the kelvin bridge and old technology micro ohm meters to increase the productivity and saving of man hours. It is capable of the measuring very low resistance in micro ohms as low as  $0.1\mu\Omega$ . It is a  $4\frac{1}{2}$  digit. It is user friendly low resistance measuring meter, works on the proven principle of 4-wire measurements.

The pulse mode operation is an additional feature of the instrument. The LR-2045 can be used for measuring resistance of cables, PCB, relays, LT bus bars, low capacity motors, welded joints etc. This has PC interface for standalone operation.

## Features

- ✓  $4\frac{1}{2}$  digit LED display.
- ✓ Resolution  $0.1\mu\Omega$  on  $2m\Omega$  range.
- ✓ RS 232 PC Interface.
- ✓ True 4 wire resistance measuring technique eliminates lead resistance errors inherent in 2 wire Measurements systems.
- ✓ Pulse Mode Operation.

## Applications

- Cables
- Components
- Relays
- PC Boards
- Bus Bars
- Contactors
- Low rating motors & transformers
- Weld Joints
- Electrodes

## Technical Details

**LR-2045**

### General Specifications

<b>Warm-up Time Stated Accuracy</b>	Five Minutes.
<b>Overage</b>	Blinking Zero Display
<b>Dimensions</b>	340 mm(D) x 258 mm(W) x 145(H)
<b>Net Weight</b>	3.2 Kg Approx
<b>After Packing</b>	5.2 Kg Approx.

### Electrical Specifications

at 25°C ± 3°C, 55% RH ± 10%

Temp. Coefficient: 150 ppm / °C

### Resistance Range

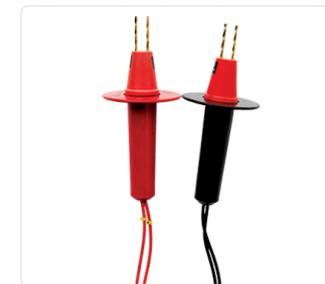
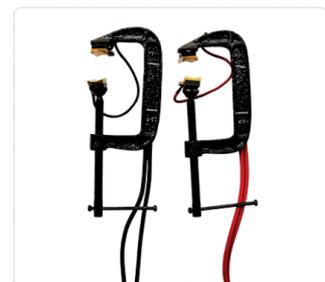
Range	Resolution	MAX CURRENT	ACCURACY ± (%RDG + DIGITS)
2 mΩ	0.1μΩ	1A	± 0.5 % ± 5 digits
20 mΩ	1μΩ	1 A	± 0.05 % ± 5 digits
200 mΩ	10μΩ	100mA	± 0.05 % ± 5 digits
2000 mΩ	100μΩ	10mA	± 0.05 % ± 5 digits
20 Ω	1mΩ	10mA	± 0.05 % ± 5 digits
200 Ω	10mΩ	1mA	± 0.05 % ± 5 digits
2000 Ω	100mΩ	0.1mA	± 0.05 % ± 5 digits

### Optional

- Test leads 10 metre long with Heavy Duty Crocodile clip. : 1 No.
- 'C' clamp with 10 metre long leads. : 1 No.
- Test leads with Heavy Duty Bond testing probe. : 1 No.

### ORDERING INFORMATION

Product	Order Code
<b>LR 2045 with Standard Accessories</b>	<b>109214010</b>


**Test leads - Kelvin clip.**

**Test leads - Bond Testing**

**Test leads - C Clamp**

### Environmental

<b>Temperature</b>	Operating : 0 °C to 40 °C Storage : 0 °C to 50 °C
<b>Humidity</b>	Operating & Storage : < 90% RH Non Condensing.

### Accessories

#### Standard

- Test leads with GP Kelvin clip. : 1 No.
- RS 232 cable : 1 No.
- Fuse 1A 250v Quick Blow, 5x20mm, Glass Type : 1 No.
- Screw Driver for Zero Adjustment Preset : 1 No.
- Mains cord of length 1.5 mtr : 1 No.
- Instruction Manual. : 1 No.

**Notes:** **1.** The Instrument is accompanied with Test & Calibration sheet. **2.** Test Facilities can be provided at the factory with the available test set-ups only. **3.** The company's policy includes continuous improvement of its product. We, therefore, reserve the right of any deviation from illustration or specifications without notice. **4.** Stated accuracies are valid from 10% of the range to 95% of the range. **5.** Accuracy specified for temperature range of 25°C ± 5°C & 55% RH ± 10%.