



LR 2045-S is a 4½ digital micro-ohm-meter, capable of measuring low resistance with 1micro-ohm resolution. It employs the proven 4-wire (4W) measurement where fixed DC current is supplied to DUT and voltage drop across the DUT is measured and displayed as proportional resistance reading. The meter is able to deliver guaranteed stable readings on inductive as well as resistive loads.

## General Specifications:

### Display:

- Large seven segment LED display.
- 4 ½ digit display.
- Max. display in digit 19999.
- Display update rate : 2.5 times / second

### Indications:

- LEDs for range and  $\Omega$  / m $\Omega$  indications.
- LED indication for operation and pulse mode.
- Over range indication: Blinking zero display.
- Under Range Indication : All Display shows zero.(Not blinking)

## Applications :

- Hot & cold winding resistance measurement of motors, generators, alternators and transformers.
- Contact resistance measurement of fuses and circuit breakers.
- Resistance measurement of cables & wires.
- Bond testing of aircraft frames.
- Resistance measurement of resistive component (e.g.: resistors, shunts, etc.)

## Technical Specifications:

Range	Resolution	Accuracy ±(% Rdg. + dgt)	FS rdg.	DC Current applied to DUTMax.	Power dissipation in the sample at mid-scale
20 m $\Omega$	1 $\mu\Omega$	±(0.05+5)	19.999 m $\Omega$	1 A	10 mW
200 m $\Omega$	10 $\mu\Omega$	±(0.05+5)	199.99 m $\Omega$	1 A	100 mW
2000 m $\Omega$	100 $\mu\Omega$	±(0.05+5)	1999.9 m $\Omega$	100 mA	10mW
20 $\Omega$	1 m $\Omega$	±(0.05+5)	19.999 $\Omega$	10 mA	1 mW
200 $\Omega$	10 m $\Omega$	±(0.05+5)	199.99 $\Omega$	1 mA	0.1mW
2000 $\Omega$	100 m $\Omega$	±(0.05+5)	1999.9 $\Omega$	100 $\mu$ A	10 $\mu$ W

Note: Accuracies are valid from 1/10<sup>th</sup> of the range to FS of range & valid at

- Temperature: 25°C ± 3°C at 55%±10%RH.
- Temperature Coefficient : 100ppm/°C.
- Warm up time for stated accuracy -10min.
- Open Circuit Voltage: 15Volt ± 3volt.

### Environmental Specifications:

- Operating Temperature: 0°C - 40°C.
- Storage Temperature: 0°C - 55°C.
- Humidity: Less Than 95% RH Non-Condensing.

### Power Supply:

- 230 VAC ± 10%, 50Hz, Single phase supply.

### Physical Specifications:

- Dimensions (H X W X L): 210 mm X 290 mm X 360 mm
- Net Weight : 5.0kg (Approx)

### Protection:

- Protection against back EMF: 12KV - (1.2/50 $\mu$  sec pulse).
- Instrument protected against mains overload (Fuse 250 mA).
- All ranges are fuse protected. (Input fuse 1A).

## Accessories:

### Standard Accessories:

- Test leads with GP kelvin clip (3mtrs) : 1Set
- User manual : 1No.
- Calibration certificate : 1No.
- Input protection fuse (1A) : 1No.
- Mains protected fuse (250mA) : 1No.
- Mains cord three pin : 1No.

### Optional Accessories:

- Test leads with heavy duty GP kelvin clip.(10mtrs)
- Carrying bag : 1No.
- Software CD : 1No.
- USB interfacing cable : 1No.
- Heavy duty bond testing probe assembly. (10mtrs)

### AVAILABLE AT:

#### SINGHI SUPPLY SYNDICATE

54, Ezra Street, Space: 51, Kolkata 700001, WB, India  
 Ph: +91 33 22351819, 30210886, Fax: +91 33 22343887  
 Mobile: +91 9836620463, 9830032306  
 E-Mail: bizliwala@hotmail.com, URL: www.bizliwala.com