

# DIGITAL MICRO-OHMMETER



**AMBER M-10**



**AMBER M-100**

## Features

- Compact, Robust & Portable
- Quick, Reliable & Accurate
- Direct read-out of Resistance & DC current
- 10 Amps (M-10) & 100 Amps (M-100)  
DC constant current source
- True four terminal measurement
- Measurement on grounded specimens
- RS-232 Printer Interface
- Automatic updating of Date & Time

## Applications

- Quick & reliable measurement of low resistance.
- Low resistance measurements on buss-bars, contactors, breakers & welded joints.

## Switches & Controls

- Switch to select the DC current flow through the test specimen.
- Switch for power with indicator.
- Switch to select the range of resistance.
- Easy replaceable fuse on the front panel.

## Description

AMBER Digital Micro Ohm-Meter is used for the measurement of low to very low range of resistance and also of grounded specimens.

The constant current source is derived directly from the line voltage and the current regulator uses triac circuit on the AC side and an internal known shunt in the DC current path as reference. The Voltage drop across the unknown resistance is amplified, ranged and displayed directly on a LCD display.

The equipment has two switches. one for the controlling of current flow through the specimen and the other for choosing an appropriate range of resistance measurement.

The Instrument has an in built RS-232 Printer interface that enables the user to dump the values to the Printer.

## Indicator & Display

- Warning Lamp for the current flow through the test specimen.
- 4x20 dot matrix LCD display for display the measured resistance & DC Current (M-100) in Amps.
- Direct read-out in milli or micro Ohm.
- Alarm for error messages.

Specification	M-10	M-100
Range	4(199.9 $\mu$ , 1999 $\mu$ , 19.99m & 199.9m $\Omega$ )	4(199.9 $\mu$ , 1999 $\mu$ , 19.99m & 199.9m $\Omega$ )
Resolution	0.1 $\mu\Omega$	0.1 $\mu\Omega$
O/P Current	10Amps	5,10,20,50 and 100 Amps
Rating	Continuous	5, 10 & 20A continuous 50A 15min-ON & 10min-OFF 100A 10min-ON & 10min-OFF
Display	Resistance reading on 4x20 dot matrix LCD display.	DC current & Resistance reading on 4x20 dot matrix LCD display.
Accuracy	$\pm 0.5\%$ of the reading & $\pm 5$ counts	$\pm 0.5\%$ of the reading & $\pm 5$ counts
Power	230V AC $\pm 10\%$ , 50Hz	230V AC $\pm 10\%$ , 50Hz
Temperature	0 $^{\circ}$ - 50 $^{\circ}$ C	0 $^{\circ}$ - 50 $^{\circ}$ C
Dimensions	16"x9"x8" (L x W x H)	18"x19"x8" (L x W x H)
Weight	12Kgs (approx)	40Kgs (approx)

Specifications may change without notice due to continuous development.