



# RESISTANCE TESTER [ LINE LOOP CONTACT ]

(Fully automatic 100A DC, LCD Display MRL - 11)



MRL-11 is a new, fully automatic **micro** controlled tester that measures contact resistance

**UDEYRAJ ELECTRICALS PRIVATE LIMITED**

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Introduction: Measuring the line loop contact resistance by bridges is not the ideal method as the test current is only a few milli amperes. Thus the value is not the true value of the contact resistance. Model MRL-11 is a direct reading tester, and uses a test current of 100A DC, resulting in true value and accurate measurements. Model MRL-11' adopts digital circuit technique and is used for measuring contact resistance of switch control equipments at test current of 100A DC. The measurements are accurate as the test is highly stable. 'UDEY' MRL-11 is a new, fully automatic micro controlled tester that measures contact resistance at 100A DC with built in printer.

MRL-11 is micro controller operated user friendly, accurate, reliable, small, light weight and reliable tester. MRL-11 incorporates a large LCD screen for display of menu and results. The results are printed on built-in printer after the test is over. MRL-11 incorporates breakthrough technology and design that gives accurate and reliable results, again and again. RS 232 link is also provided.

The advantages of MRL-11

- Automatic measure of contact resistance in 3 seconds
- True 4 terminal measurement: High accuracy. No lead compensation required
- Test results saved automatically
- Recall and print last 100 test results
- Prints results on built-in printer

Safety Features

- Fuse protection for line short circuit

ORDERING INFORMATION  
MRL-11

Specification subject to change due to constant up gradation

Description: UDEY MRL-11 is a new generation, fully automatic, 4 terminal line loop contact resistance tester. The entire test is done automatically and quickly. MRL-11 takes over; powers up the test current, takes the readings and displays the results on the LCD screen. Prints test results through its built-in printer. Test results can be saved in memory and can be recalled later. True portability is achieved by the lightweight (only 10 kg), single unit design housing the MRL-11. The MRL-11 is encased in an aluminum alloy cabinet.

Principle: Current of 100A DC is passed in the contact and voltage drop across the contacts is sensed, processed and the resistance is displayed on screen. MRL-11 is micro controller operated user friendly, accurate, reliable, small, light weight and reliable tester. MRL-11 incorporates a large LCD screen for display of menu and results. The results are printed on built-in printer. MRL-11 incorporates breakthrough technology and design that gives accurate and reliable results, again and again. A true four terminal measurement is used to eliminate the need for lead resistance compensation.

Features

- Micro-controller operated
- Front panel with legend
- Built-in printer
- Can re call stored last 100 tests results.
- Weight: 10 kg

Accessories Bag



Applications:

- Measure rotating machine contact resistance
- Measure breaker element resistance
- Measure resistance of bus bar joints
- Locate poor connections

Specifications:

- Power supply: 220V $\pm$ 10%, AC 50 Hz. (120V $\pm$ 10% against order)
- Measuring range: 0to1999.9  $\mu\Omega$
- Resolution: 0.1  $\mu\Omega$
- Test current:  $\geq$  100A DC
- Measurement accuracy: 0.5 class
- Display: LCD
- Memory: Stores 100 test results.
- Printer: Built in printer.
- Usage environment:  $\leq$ 40° C. < 85% R.H.
- Accessories:
  - Bag
  - Mains cord.
  - Flexible testing cable set with alligator clamps, 8 meter long.
  - Operating Manual.
  - Calibration certificate.
- Dimensions: MRL-11: 37(L)x26.5(W)x22.5(H) cm
- Transport case 37(L) x 28(W) x 12.5(H) cm
- Weight: MRL-11: 9.5 kg.
- Accessories Bag: 7.5 kg.



**UDEY**<sup>®</sup>

**UDEYRAJ ELECTRICALS PRIVATE LIMITED**

212-A, Hind Saurashtra Indl. Est., Marol Naka, 85/86 M.V.Road, Mumbai-400 059. INDIA  
Tel: + 91 22 6691 6181 Fax: + 91 22 6694 2787 E-mail: udeyraj@vsnl.com Website: www.udeyraj.com