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This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

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Product Lifecycle Management System

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The logo for UDEY, featuring the word "UDEY" in white capital letters inside a blue rounded rectangle with a registered trademark symbol (®) to its upper right.

Digital Micro Ohm Meter



Model: TRT-81

Applications:

- Measure resistance of transformers.
- Measure resistance of cables / wires.
- Measure resistance of motor windings, coils etc
- Contact resistance of low voltage switches, connectors etc..

Introduction: The UDEY 'TRT-81' is a high precision, new generation tester which replaces DC wheat stone bridge and double arm bridge for measurement of DC resistance. 'TRT-81' adopts advanced constant current source technology, four terminal measurement, digital display of resistance value. The 'TRT-81' is powered by single phase AC mains supply. The measurements are accurate as the test current is highly stable.

Principle: The constant current generated is fed to the resistance under test through the current terminals and the voltage drop across the resistance under test is measured and displayed in ohms. A true four terminal measurement is used to eliminate the need for lead resistance compensation.

Features:

- 2000 $\mu\Omega$ to 20 k Ω in 8 ranges
- True 4 terminal measurement –eliminates lead error
- LED displays resistance in ohms
- Constant current source
- Front panel with legend
- Portable light weight: 2.8 kg

The company name "UDHEYRAJ ELECTRICALS PRIVATE LIMITED" is written in large, bold, blue capital letters at the bottom of the page. The background of this section shows a photograph of a high-voltage electrical substation with large transformers and power lines under a blue sky with clouds.

'TRT-81'

Description: UDEY 'TRT-81' is a new generation, digital ohm meter using 4 terminal measurement technique. The entire test is done quickly. 'TRT-81' generates constant current, powers up the test current, takes the readings, and displays the results on the LED display. The 'TRT-81' is powered by single phase AC mains supply. True portability is achieved by the lightweight (only 2.8 kg), single unit design housing. 'TRT-81' is encased in a strong plastic molded cabinet with tilting handle.

Specifications:

Power supply: 230V ± 10%, AC 50 Hz. (120V ± 10% against order)

Measuring range: 8 ranges

Range	Resolution	Max DC current	Accuracy* [%rdg + digits]
2000 μΩ	1 μΩ	1 A	±0.5±3
20 mΩ	10 μΩ	1 A	±0.5±3
200 mΩ	100 μΩ	1 A	±0.5±3
2000 mΩ	1 mΩ	1 A	±0.2±2
20 Ω	10 mΩ	0.1 A	±0.2±2
200 Ω	100 mΩ	10 mA	±0.2±2
2000 Ω	1 Ω	1 mA	±0.2±2
20 k Ω	10 Ω	0.1 mA	±0.2±2

Display: 3½ digit, 7 segment LED display

Rx open / over range indication: Display of '1'.

LED Indicator: Power on

Usage environment: = 40° C. < 85% R.H.

Enclosure: Plastic molded cabinet with tilting handle.

Accessories: Power supply cord.
Flexible testing cable set with alligator clamps, 1 meter long.
Operating Manual.
Traceable works calibration certificate.

Dimensions: 21.5(W) x 23(D) x 9(H) cm

Weight: 2.8 kg.

Ordering information: TRT-81

* Stated accuracy at: 25° ± 5°C. / Stated accuracy from 10% to 100% of range.
• Specification subject to change due to constant up gradation



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