

# TRANSFORMER RESISTANCE TESTER (micro processor) series TDR



The advantages of TDR

- Quick speed measurement of resistance
- High precision of class 0.2, good repetitiveness
- Digital display-of resistance and test current
- Automatic discharge and discharge warning
- True 4 terminal measurement
- No lead compensation required
- Saves 255 test results
- Built-in printer**
- Light weight**



# TRANSFORMER RESISTANCE TESTER TDR

## Applications:

Measure DC resistance of transformers windings etc.

**Introduction:** The NMC 'TDR' is a high precision, new generation, light weight large output current and micro-processor controlled tester. This replaces old DC wheat stone bridge and double arm bridge for measurement of DC resistance. 'TDR' adopts new advanced test current power supply technology, four terminal measurement, digital display of resistance value and test current. 'TDR' is powered by 220V AC mains single phase supply. The measurements are accurate as the test current is highly stable. High automation is achieved with automatic discharge warning.

**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

Constant current source

Saves 255 test results in memory

Built-in printer

**Description:** NMC 'TDR' is a new generation, digital resistance meter using 4 terminal measurement technique. Built in printer for printing results. The entire test is done quickly. 'TDR' generates constant current, powers up the test current, takes the readings, and displays the results on the LCD screen. The 'TDR' is encased in an aluminum alloy cabinet.

## SPECIFICATIONS:

MODEL PARAMETER	TDR-10	TDR-20	TDR-40
TEST CURRENT	10 / 5 / 1 / 0.01 AMP	20 / 10 / 5 / 1 AMP	40 / 20 / 10 / 5 / 2.5 AMP
RANGE	10 A : 1μΩ - 2 Ω 5 A : 1μΩ - 4 Ω 1 A : 1μΩ - 20 Ω 0.01A : 1μΩ - 2 kΩ	20 A : 1μΩ - 1 Ω 10 A : 1μΩ - 2 Ω 5 A : 1μΩ - 4 Ω 1 A : 1μΩ - 20 Ω	40 A : 1μΩ - 0.5 Ω 20 A : 1μΩ - 1 Ω 10 A : 1μΩ - 2 Ω 5 A : 1μΩ - 4 Ω 2.5 A : 1μΩ - 8 Ω
POWER	300 WATT	500 WATT	900 WATT
DISPLAY	4.5 Digit, LCD displays resistance and test current		
DISPLAY SCREEN	LCD 128 x 64 with luminance control		
ACCURACY	±0.2 % ± 3 digits		
RESOLUTION	0.1μΩ		
PRINTER	Built-in printer		
POWER SUPPLY	230V ± 10%, AC 50 Hz single phase [120V made to order]		
DIMENSIONS	400 X 200 X 265	400 X 210 X 510	440 X 230 X 550
WEIGHT	6 kg	10 kg	13 kg
AMBIENT	Max up to 40 deg C / RH85% non condensing		

Accessories bag: Mains cord.  
Flexible testing cable set with alligator clamps.  
Operating Manual.  
Calibration certificate.

Ordering information: Example TDR-20 for model TDR-20.

Specification subject to change due to constant up gradation

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