YTE215X Series Earth Resistance Testers

YTE2150 / YTE2151 — Earth Resistance & Earth Voltage



OVERVIEW

The YTE215X series earth resistance testers are professional instruments for testing the earth resistance of electrical equipment. Controlled by an intelligent microchip, they offer high accuracy and high reliability, and measure the earth resistance of grounding installations in power systems, electrical equipment and lightning-protection devices. They also measure AC earth voltage. The series has two models: YTE2150 (200 Ω) and YTE2151 (2000 Ω).

FEATURES

- Segment LCD with backlight display
- Automatic range switching for voltage and resistance measurement
- Data hold and storage (100 readings)
- Built-in lithium battery, or 5 V / 1 A adapter power (charging)
- Over-range indication: "OL" is displayed above the upper limit

EARTH RESISTANCE

Range	YTE2150	YTE2151	Resolution
20 Ω	±2 % rdg ± 5 dgt	±2 % rdg ± 5 dgt	0.01 Ω
200 Ω	±2 % rdg ± 3 dgt	±2 % rdg ± 3 dgt	0.1 Ω
2000 Ω	—	±2 % rdg ± 3 dgt	1 Ω

Open-circuit voltage	Approx. 50 V
Frequency	Approx. 820 Hz
Test current	Approx. 3 mA (AC) on the 20 Ω range

AC VOLTAGE

Range	YTE2150 / YTE2151	Resolution	Input impedance	Frequency
20 V	±2 % rdg ± 5 dgt	0.01 V	1 MΩ	50–1000 Hz
200 V		0.1 V		
600 V		1 V		

GENERAL SPECIFICATIONS

Power supply	Lithium battery (3.7 V, 1500 mAh), or 5 V / 1 A adapter
Charging interface	USB Type-C, 5 V
Display	Segment LCD
Operating environment	0 °C to +40 °C · relative humidity < 75 % RH
Dimensions	170 × 105 × 50 mm (L × W × H)
Weight	Net approx. 0.3 kg
Overload protection	Earth resistance ranges 600 V AC (10 s) · earth voltage range 750 V AC (30 s)
Withstand voltage	1500 V AC between leads and housing for 1 minute, no flashover

STANDARD ACCESSORIES

- Green test lead, 5 m × 1 set
- Yellow test lead, 10 m × 1 set
- Red test lead, 15 m × 1 set
- Earth spikes × 2
- USB Type-C data cable × 1
- 5 V / 1 A charging adapter × 1